

NPPES Electronic File Interchange (EFI) - Technical Companion Guide

Prepared for



Centers for Medicare & Medicaid Services

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1 Introduction

1.1 NPPES Overview

The Administrative Simplification provisions of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) mandated the adoption of standard unique identifiers for health care providers and health plans. The Centers for Medicare & Medicaid Services (CMS) commissioned the development of the National Plan and Provider Enumeration System (NPPES) to assign these unique identifiers. The primary purpose for the development of NPPES is to standardize and simplify the process of enumerating providers (and, at a future time, health plans) and maintaining their data. The NPPES is a web based system enabling providers across the country to apply for their unique National Provider Identifier (NPI).

■

1.2 EFI Overview

The Electronic File Interchange (EFI – Version 1.1 of NPPES) provides a bulk process for organizations (e.g., health plans, professional associations and other groups) to interact with NPPES. These organizations typically maintain significant amounts of information about their providers. The EFI process enables the electronic submission of enumeration applications and data change requests for large numbers of providers with minimal manual intervention. Under the current design, the EFI process achieves this goal through the use of text files that follow the XML standard. In the future, the EFI process will also implement the ASC X12N Healthcare Provider Transaction (274) (004050X253) specification.

1.3 Document Purpose

The purpose of this document is to give NPPES Electronic File Interchange (EFI) participants an understanding of the structure of the XML file(s) containing the provider data that are used by the EFI process. The structure of the XML files used by the EFI process is described by a document called the EFI XML schema. The schema contains descriptions of the different data items stored in the XML files along with restrictions on the type of information contained in such items. Section 2 and all its sub-sections aim at facilitating the understanding of the schema by breaking it down to its constituent data items (elements) and providing a detailed description on the purpose, contents, and restrictions applying to each such item. For an understanding of the EFI process itself, please refer to the EFI user guide and the EFI policy guide, both of which are on the NPPES EFI website. This document is a companion guide to creating and interpreting the Healthcare Provider Information XML transaction file required for the EFI process.

2 EFI XML Schema

2.1 XML Schemas – Brief Description

The document will use terms like *element*, *attribute*, *root*, *required*, and *optional* which are common when describing the structure and workings of an XML document. The following list briefly describes these terms and the relationship that exists between them:

- An XML schema is essentially a structured text file whose contents are organized in a hierarchical fashion.

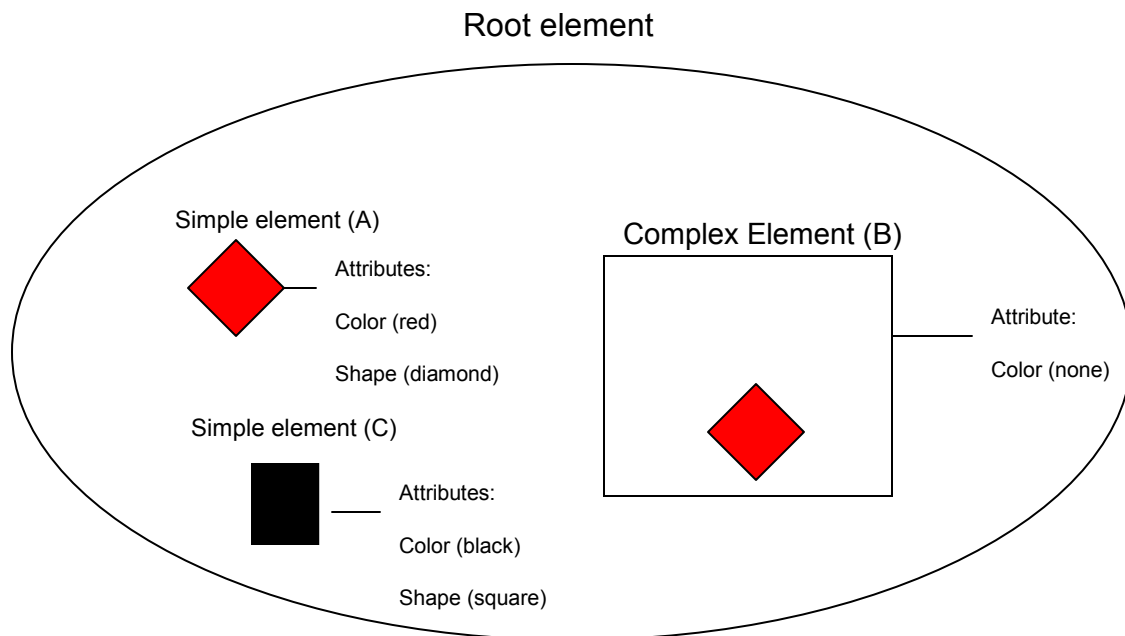
The contents of the file are organized around the data “element” concept.

- At the bottom of the hierarchy are the “simple” elements, which are units of data that cannot be broken down any further.
- Each simple element consists of attributes (properties) which describe this particular element or unit of data.
- Attributes are not considered to be units of data and therefore cannot exist outside the context of an element. Attributes can be required or optional for that particular element. If a required attribute is not provided an element cannot exist.

Complex elements make up the rest of the hierarchy, which culminates with the “root” element.

- Each complex element consists of attributes and other elements (simple or complex) and the root element encompasses all the elements of the schema directly or indirectly.
- If an element (A) is part of another element (B) then this element (A) is a child of element (B). Element (B) is a parent of element (A). The root element is the parent of all the elements in the schema (directly or indirectly).
- Like attributes, elements can be defined as required or optional when they’re a part of a hierarchy of elements. For example element (B) may or may not need element (A) to exist by itself. Element (A) is optional to element (B).
- The root element can never be defined as optional.

The following drawing illustrates some of the relationships described above:



The root element consists of two simple elements and one complex element. The complex element consists of one simple element. It also has an attribute that describes it, namely Color.

The diamond and the square are the 2 simple elements of this schema. They are self-contained units of information with two attributes each; Shape and Color.

Attributes and elements can be classified as “required” or “optional”. For example, for the two simple elements, Shape might be a required attribute for that element because it describes the form of the element however, Color might not be perceived as a necessary distinguishing attribute. It is possible to distinguish a square from a diamond even if they were both of the same color. Therefore, Color can be considered as optional. The same logic applies to elements, simple or complex. Naturally, the root element of an XML schema is never optional.

Business requirements define the structure of the XML schema and consequently whether elements or attributes in that schema are defined as required or optional.

2.2 EFI XML Schema Overview

The EFI XML schema is the document that serves as a blueprint for the generation and validation of all XML provider data files used by the EFI process. To facilitate its adoption by the EFI participants, the EFI XML schema leverages existing standards in the healthcare industry. Specifically, the EFI XML schema closely follows the relationship structures of the ASC X12N Healthcare Provider Information (274) 004050 X253 transaction set where relevant to NPPES. The naming of the elements of the EFI XML schema is also based on the naming of the different data items of the 274 transaction set. All XML files containing provider data that will be used by the EFI process will be compared against the EFI XML schema to ensure that their contents conform to the definitions and restrictions specified by the schema.

2.3 EFI XML Schema Structure

This section and the following sub-sections provide details on the individual elements comprising the EFI XML Schema. The table below describes the general layout of the schema:

schema location:	C:\...274 NPPES EFI.xsd
attribute form default:	Unqualified
element form default:	Qualified
version	1.2

Elements
CMS274
CMS27410200_BHT_BeginningOfHierarchicalTransaction CMS274_HealthCareProviderInformationProviderSiteGroup
CMS27420100_2000A CMS27420300_2100AA_NM1_SubmitterName
CMS27420100_2000C
CMS27420100_2000C_TRN_ProviderTracking CMS27420300_2100CA CMS27420300_2100CA_NM1_ProviderName CMS27420400_2100CA_N2_AdditionalProviderNameInformation CMS27420500_2100CA_PER_ProviderCommunicationsContact CMS27420600_2100CA_DMG_ProviderSDemographicInformation CMS27420700_2100CA_API_RequestStatus CMS27420900_2100CA_DEG_ProviderSDegreeInformation CMS27421000_2100CA_IND_ProviderSPlaceOfBirthInformation CMS27421200_2100CA_DTP_ProviderSActionDate CMS27421300_2100CA_MTX_RequestStatusAdditionalDetail CMS27421400_2100CA_CRC_EFIProcessingStatusAdditional CMS27422100_2110CA CMS27422100_2110CA_NX1_ProviderAddressType

CMS27422300_2110CA_N3_ProviderSStreetAddress
CMS27422400_2110CA_N4_ProviderSGeographicLocation
CMS27422600_2120CA
CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization
CMS27423200_2130CA
CMS27423200_2130CA_HPL_ProviderLicenseCertificationRegistration
CMS27423400_2140CA
CMS27423400_2140CA_REF_ProviderIdentificationNumbers
CMS27420300_2100CD
CMS27420300_2100CD_NM1_AffiliatedEntityName
CMS27420500_2100CD_PER_AffiliatedEntityContactInformation
CMS27420600_2100CD_DEG_AffiliatedEntitySCredentials
CMS27421300_2100CD_MTX_AffiliatedEntitySTitle
CMS27420100_2000D
CMS27420300_2100DA
CMS27420500_2100DA_PER_SiteLocationContactInformation
CMS27422100_2110DA
CMS27422300_2110DA_N3_SiteLocationStreetAddress
CMS27422400_2110DA_N4_SiteLocationGeographicLocation
CMS27420100_2000E
CMS27420300_2100EA
CMS27422600_2120EA
CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization

2.3.1 Element: CMS274

CMS274 describes the root element of the EFI XML schema. The root element consists of two child elements as depicted in the diagram below.

Note:

- The root element **MUST NOT** contain any attributes at all (namespaces, schema names, etc.). An EFI XML file containing attributes in its root element will fail EFI XML schema validation. This is important to observe because XML files generated by off-the-shelf XML editors (e.g. XML

Spy), often have such attributes automatically appended to their root element. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.

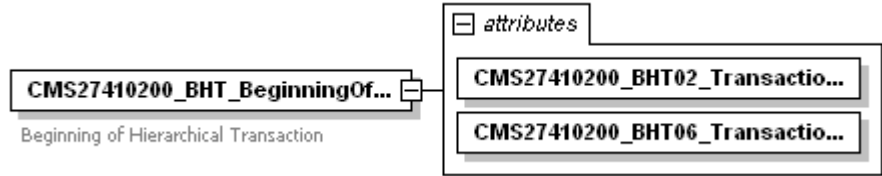
- XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.

Diagram	<pre> graph LR CMS274[CMS274 Health Care Provider Information - Root Element] --- Connector[...] Connector --- CMS27410200[CMS27410200_BHT_BeginningOf... Beginning of Hierarchical Transaction] Connector --- CMS274_HealthCare[CMS274_HealthCareProviderInfo... Health Care Provider Information Provider-Site_Group] CMS274_HealthCare --- Multiplicity[1..∞] </pre>		
Children	CMS27410200 BHT BeginningOfHierarchicalTransaction - this element contains the header information of the file. CMS274_HealthCareProviderInformationProviderSiteGroup - this element contains health care provider information.		
Annotation	documentation	Health Care Provider Information - Root Element	
Source	<pre> <xs:element name="CMS274"> <xs:annotation> <xs:documentation>Health Care Provider Information - Root Element</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27410200_BHT_BeginningOfHierarchicalTransaction"/> <xs:element ref="CMS274_HealthCareProviderInformationProviderSiteGroup" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.2 Element: CMS27410200_BHT_BeginningOfHierarchicalTransaction

This element contains the header information of the XML file, such as transaction and application types. This element is required. There can only be one instance of this element in a given XML file. Last, the element has 2 attributes that are described below:

Note: XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.

Diagram	 <pre> classDiagram class CMS27410200_BHT_BeginningOfHierarchicalTransaction { CMS27410200_BHT02_TransactionSetPurposeCode CMS27410200_BHT06_TransactionSetPurposeCode } </pre>					
Used by	element	CMS274				
Attributes	Name	Type	Use	Maximum Length	Allowed values	Annotation
	CMS27410200_BHT02_TransactionSetPurposeCode	Integer	required	2 digits	11 & 13	<p>Contains the "Transaction set purpose code" value. This value indicates whether the file is a request or a response one.</p> <p>11 – Response.</p> <p>13 – Request.</p> <p>Note: If a value other than 11 or 13 is stored, then the XML file will fail schema validation and as a result it will be rejected by the EFI process. No response file will be created. The EFI participant will be notified via e-mail only.</p> <p>For new and modify requests this code must be set to 13. If the EFI process receives an XML file storing a value other than 13 (e.g. 11), the EFI process will reject the file. The EFI participant will be notified via e-mail only.</p> <p>For EFI response files, this code must be set to 11.</p>

	CMS27410200_BHT06_TransactionTypeCode	String	required	2 characters	RK, U5, R1, and R2	<p>Contains the “Transaction Type code” value that indicates whether XML files contain new application or modification requests, and so on.</p> <p>RK – Enumeration (new request) – required when EFI participant is submitting new provider applications.</p> <p>U5 – Update (modify request) – required when the EFI participant is submitting updates to provider records that have already been enumerated.</p> <p>R1 – Request for Enumeration Verification – required when the EFI participant is requesting verification of provider NPI-s.</p> <p>R2 – Response to Request for Enumeration Verification – required when responding to requests for NPI verification.</p> <p>Note: The EFI process included with NPPES Release 1.1 accepts only New and Modify requests. An XML file with a transaction type code other than RK and U5 will be rejected. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>
Annotation	documentation	Beginning of Hierarchical Transaction				
Source	<pre><xs:element name="CMS27410200_BHT_BeginningOfHierarchicalTransaction"> <xs:annotation> <xs:documentation>Beginning of Hierarchical Transaction</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27410200_BHT02_TransactionSetPurposeCode" use="required"> <xs:simpleType> <xs:restriction base="xs:int"> <xs:totalDigits value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

	<pre> <xs:enumeration value="11"/> <xs:enumeration value="13"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27410200_BHT06_TransactionTypeCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="RK"/> <xs:enumeration value="U5"/> <xs:enumeration value="R1"/> <xs:enumeration value="R2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
--	---

2.3.3 Element: CMS274_HealthCareProviderInformationProviderSiteGroup

This element contains Health Care Provider information and it is required by the EFI XML schema. Each XML data file must have at least one occurrence of this element. Each occurrence represents one provider application. The schema does not define an upper limit on the number of occurrences for this element. This element has 4 child elements as depicted in the diagram below.

Note: XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.


Diagram			
Children	<p>CMS27420100_2000A: this element is required and contains the EFI Organization ID.</p> <p>CMS27420100_2000C: this element is required and contains provider details, such as Tracking ID, Name details, and Affiliated Entity details.</p> <p>CMS27420100_2000D: this element is required and contains provider Practice Location details.</p> <p>CMS27420100_2000E: this element is optional and contains provider Group Taxonomy details.</p>		
Used by	element	CMS274	
Annotation	documentation	Health Care Provider Information Provider-Site_Group	
Source	<pre> <xs:element name="CMS274_HealthCareProviderInformationProviderSiteGroup"> <xs:annotation> <xs:documentation>Health Care Provider Information Provider-Site_Group</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420100_2000A"/> <xs:element ref="CMS27420100_2000C"/> <xs:element ref="CMS27420100_2000D"/> <xs:element ref="CMS27420100_2000E" minOccurs="0"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.4 Element: CMS27420100_2000A

This element is defined as optional by the EFI XML schema. It acts as a container for other information, such as the EFI participant (organization) ID. This element contains a single child element; [CMS27420300_2100AA_NM1_SubmitterName](#) and it can occur more than once in an XML file.

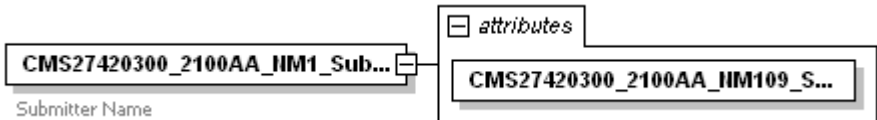
Note: XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI

participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.

Diagram			
Children	CMS27420300_2100AA_NM1_SubmitterName		
Used by	element	CMS274_HealthCareProviderInformationProviderSiteGroup	
Annotation	documentation	Submitter Level	
Source	<pre> <xs:element name="CMS27420100_2000A"> <xs:annotation> <xs:documentation>Submitter Level</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420300_2100AA_NM1_SubmitterName" minOccurs="0"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.5 Element: CMS27420300_2100AA_NM1_SubmitterName

This element is a non-required child of CMS27420100_2000A. This element's attribute contains the EFI Organization (participant) ID as depicted below:

Diagram							
Used by	elements	CMS27420100_2000A CMS27420300_2100AA					
Attribute(s)	Name	Type	Use	Maximum Length	Allowed values	Annotation	
	CMS27420300_2100AA_NM109_SubmitterIdentifier	String	Required	80 characters	Any valid string.	Contains the EFI Organization (participant) ID. The EFI Organization ID is the unique identifier issued by the Enumerator upon the successful completion of this organization's approval process. Each organization that seeks to participate in the EFI	

						<p>process, must seek approval from the Enumerator.</p> <p>Note: This information is maintained at the provider record level in the XML file. In other words, the EFI Organization ID must be provided for each record in the EFI input file. The EFI process checks the EFI Organization ID provided in each of the provider records against the EFI organization ID created by NPPES upon this organization's approval by the Enumerator. The processing will continue for as long as the EFI Organization ID values stored in the XML file match the IDs maintained by NPPES. Any discrepancies will cause the XML file to be rejected by the EFI process without any further action taken on the file. No response file is generated by the EFI process. The EFI participant is notified via e-mail only. This is an example of the validation steps performed by the EFI process that cannot be performed by the EFI XML schema.</p>	
Annotation	documentation	Submitter Name					
Source	<pre><xs:element name="CMS27420300_2100AA_NM1_SubmitterName"> <xs:annotation> <xs:documentation>Submitter Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420300_2100AA_NM109_SubmitterIdentifier" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="80"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>						

	</xs:complexType> </xs:element>
--	------------------------------------

2.3.6 Element: CMS27420100_2000C

This element is required by the EFI XML schema. It acts as a container for other information, such as Provider Tracking ID, provider personal details, contact person, and/or authorized representative information. This element has three child elements as depicted in the diagram and it can occur only once within a provider's record in the XML file.

Note: XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.

Diagram			
Children	<p>CMS27420100_2000C_TRN_ProviderTracking: contains Provider Tracking Id details.</p> <p>CMS27420300_2100CA: contains Provider personal details.</p> <p>CMS27420300_2100CD: contains Provider Authorized Official/Contact person/Provider Other Name details.</p>		
Used by	element	CMS274_HealthCareProviderInformationProviderSiteGroup	
Annotation	documentation	Provider Hierarchical Level	
Source	<pre> <xs:element name="CMS27420100_2000C"> <xs:annotation> <xs:documentation>Provider Hierarchical Level</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420100_2000C_TRN_ProviderTracking" minOccurs="0"/> <xs:element ref="CMS27420300_2100CA"/> <xs:element ref="CMS27420300_2100CD" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>		

	</xs:element>
--	---------------

2.3.7 Element: CMS27420100_2000C_TRN_ProviderTracking

This element is optional and has one attribute that contains the Provider Tracking ID (see diagram below).

Note: This element does not exist in the case of new application requests and it is only optional in Change Request applications. It should be noted that if this element does exist in the provider record, then its attribute must be populated. Please refer to the table below for additional details.

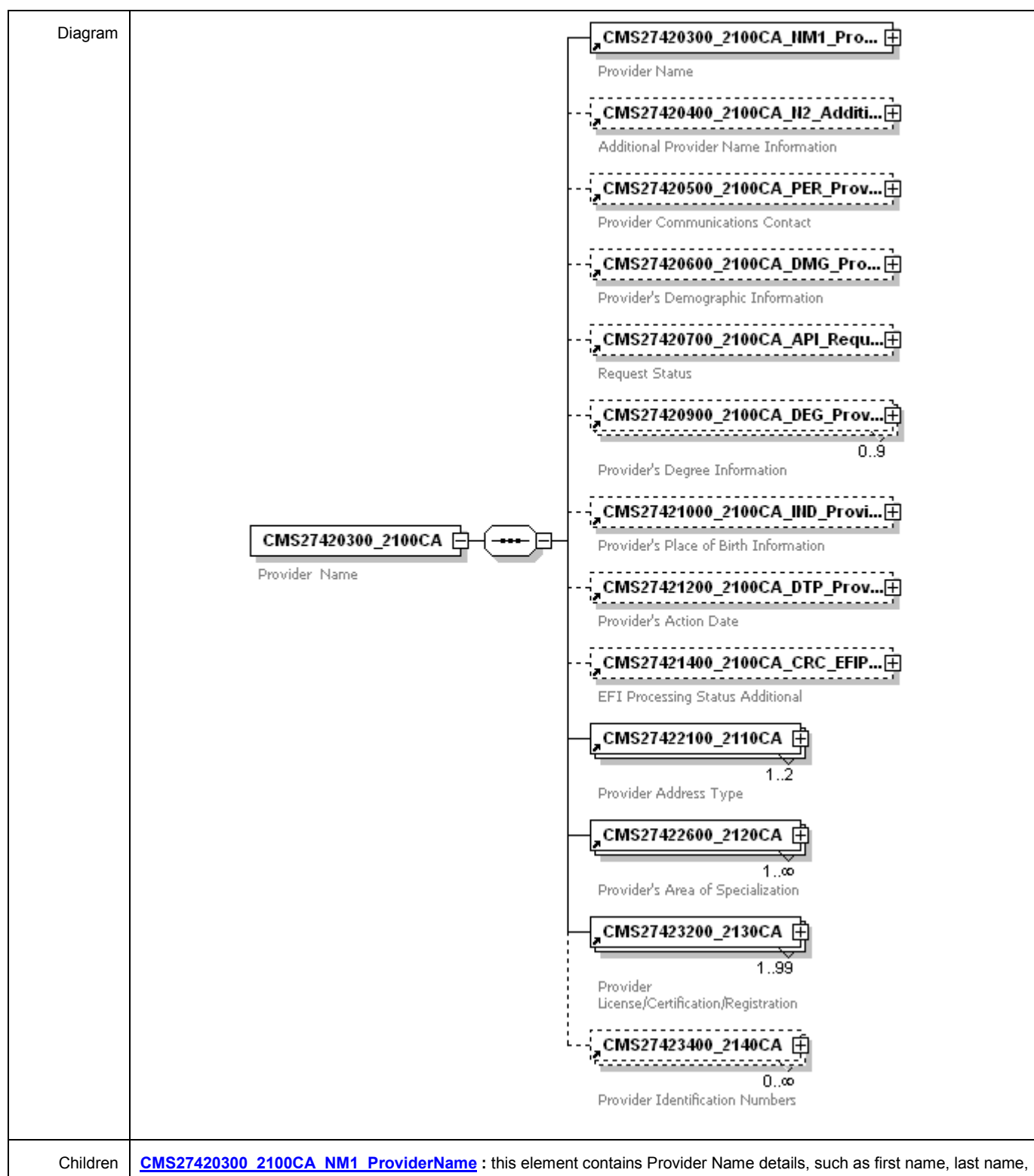
Diagram	<div><div><div>CMS27420100_2000C_TRN_Provi...</div><div>Provider Tracking</div></div><div><div>attributes</div><div><div>CMS27420100_2000C_TRN02_Ref...</div></div></div></div>					
Used by	element	CMS27420100 2000C				
Attribute(s)	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420100_2000C_TRN02_Referencidentification	String	Required	50 Characters.	Any valid string.	<p>This attribute contains the Provider Tracking ID. The Provider Tracking ID is issued by NPPES upon successful submission of the application to NPPES through the EFI process.</p> <p>Note: Provider Tracking ID-s are not applicable for New application requests. However, in the case of Change requests, this attribute might get populated.</p> <p>The EFI process does not use the value of the Provider Tracking ID in a request XML file because it relies on the provider's NPI number to successfully perform change request operations on records.</p>
annotation	documentation	Provider Tracking				
source	<pre><xs:element name="CMS27420100_2000C_TRN_ProviderTracking"> <xs:annotation> <xs:documentation>Provider Tracking</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420100_2000C_TRN02_Referencidentification" use="required"></pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="50"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
--	--

2.3.8 Element: CMS27420300_2100CA

This element is required by the EFI XML schema. It acts as a container for provider personal information, such as provider name, birth, credentials, mailing address telephone numbers, and so on. It consists of 14 simpler elements (or child elements). Please see the table below for additional information.

Note: XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.



	<p>organization name, etc.</p> <p>CMS27420400 2100CA N2 AdditionalProviderNameInformation : this element contains Provider Additional Name details.</p> <p>CMS27420500 2100CA PER ProviderCommunicationsContact: this element contains provider information, such as telephone number, telephone extension etc., for the provider's mailing address.</p> <p>CMS27420600 2100CA DMG ProviderSDemographicInformation : this element contains provider demographic information, such as date of birth and gender.</p> <p>CMS27420700 2100CA API RequestStatus: this element contains information pertaining to application statuses, such as Activate, Pended</p> <p>CMS27420900 2100CA DEG ProviderSDegreeInformation : this element contains provider degree/credential details.</p> <p>CMS27421000 2100CA IND ProviderSPlaceOfBirthInformation : this element contains provider place of birth information.</p> <p>CMS27421200 2100CA DTP ProviderSActionDate : this element contains the application enumeration date.</p> <p>CMS27421400 2100CA CRC EFIProcessingStatusAdditional : this element contains information pertaining to an application's processing status that indicates for example, whether an application has been accepted by EFI for further processing or whether it has failed any initial validation errors, and so on.</p> <p>CMS27422100 2110CA: this is a container element that maintains information related to a provider's mailing address, such as street address, geographic location, etc.</p> <p>CMS27422600 2120CA : this is a repeatable element that contains provider taxonomy information.</p> <p>CMS27423200 2130CA : this is a repeatable element that contains provider license/certification/registration information.</p> <p>CMS27423400 2140CA : this is a repeatable element that contains provider other identification and SSN/ITIN (or EIN) number information.</p>		
Used by	Element	CMS27420100 2000C	
Annotation	documentation	Provider Name	
Source	<pre> <xs:element name="CMS27420300_2100CA"> <xs:annotation> <xs:documentation>Provider Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420300_2100CA_NM1_ProviderName"/> <xs:element ref="CMS27420400_2100CA_N2_AdditionalProviderNameInformation" minOccurs="0"/> <xs:element ref="CMS27420500_2100CA_PER_ProviderCommunicationsContact" minOccurs="0"/> <xs:element ref="CMS27420600_2100CA_DMG_ProviderSDemographicInformation" minOccurs="0"/> <xs:element ref="CMS27420700_2100CA_API_RequestStatus" minOccurs="0"/> <xs:element ref="CMS27420900_2100CA_DEG_ProviderSDegreeInformation" minOccurs="0" maxOccurs="9"/> <xs:element ref="CMS27421000_2100CA_IND_ProviderSPlaceOfBirthInformation" minOccurs="0"/> <xs:element ref="CMS27421200_2100CA_DTP_ProviderSActionDate" minOccurs="0"/> <xs:element ref="CMS27421400_2100CA_CRC_EFIProcessingStatusAdditional" minOccurs="0" </pre>		

	<pre> maxOccurs="unbounded"/> <xs:element ref="CMS27422100_2110CA" maxOccurs="2"/> <xs:element ref="CMS27422600_2120CA" maxOccurs="unbounded"/> <xs:element ref="CMS27423200_2130CA" maxOccurs="99"/> <xs:element ref="CMS27423400_2140CA" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </xs:element> </pre>
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2.3.9 Element: CMS27420300_2100CA_NM1_ProviderName

The Provider Name element is required by the EFI XML schema. It consists of attributes containing information, such as Provider Entity Type, Provider Name, NPI (National Provider Identification), etc.

Note: XML files without this element will fail validation against the EFI XML schema. XML files received for EFI processing that fail schema validation will be rejected without any processing. The EFI participant that submitted such a file will be notified via e-mail. No response file is created by the EFI process.

Diagram						
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420300_2100CA_HM102_EntityTypeQualifier	Integer	Required	1	1 or 2	This attribute contains the code value that indicates the Entity Type of a provider application. Entity Type1 indicates an Individual

						<p>Provider application.</p> <p>Entity Type 2 indicates an Organization Provider application.</p> <p>Note: An XML file containing provider records where this attribute is set to a value other than 1 or 2, will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>
	CMS27420300_2100CA_NM103_ProviderLastOrOrganizationName	String	Required	60	Any valid string.	<p>This attribute contains the Provider Last Name or Organization name depending on the entity type of the provider record.</p> <p>If the provider record belongs to an individual (Entity Type is 1), then the attribute stores the value of the provider's last name. Otherwise, the attribute stores the value of the organization name.</p> <p>Entity Type 1</p> <p>Note:</p> <p>*. If the length of the Provider Last Name exceeds the maximum allowed (60 characters) then the XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. For individual providers, the maximum length for this field allowed by NPPES is 35 characters. If the length of the value stored in this attribute is more than 35 characters then this particular provider records will fail pre-validation and marked as rejected by the EFI process. The record will be marked as rejected with an error code "01" in the response file.</p> <p>Entity Type 2</p> <p>Note:</p> <p>*. If the length of the Organization Name exceeds the maximum allowed (60</p>

						<p>characters) then the XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. NPPES allows an organization name to be up to 70 characters long. The EFI process avoids potential schema validation problems with its response XML files by trimming the organization names returned by NPPES down to 60 characters before storing them in the files.</p>
	CMS27420300_2100CA_NM104_ProviderFirstN ame	String	Optional	35	Any valid string	<p>This attribute contains the Provider First Name.</p> <p>Note:</p> <p>*. This field is marked as optional by the EFI XML schema. NPPES however requires this information if the provider is an Entity Type 1 (individual). It is the EFI process that performs this validation. If the application record belongs to an individual provider and this attribute is not populated, the EFI process will mark the record as rejected with an error code "02" in the response file.</p> <p>*. If the length of the provider first name exceeds the allowed maximum (35 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. NPPES allows a provider's first name to be up to 20 characters. If the length of the provider first name exceeds the maximum allowed by NPPES, the EFI process will mark this record as rejected with an error code "01" in the response file.</p>
	CMS27420300_2100CA_NM105_ProviderMiddle Name	String	Optional	25	Any valid string	<p>This attribute contains the Provider Middle Name.</p> <p>Note:</p> <p>*. If the length of the provider middle name</p>

						<p>exceeds the maximum allowed (25 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. NPPES allows the provider middle name to be up to 20 characters long. If the length of the provider middle name exceeds the maximum allowed by NPPES, the EFI process will mark this record as rejected with an error code "01" in the response file.</p>
	CMS27420300_2100CA_NM106_ProviderName Prefix	String	Optional	10	Ms. , Mr. , Miss, Mrs. , Dr. , and Prof.	<p>This attribute contains the Provider Name Prefix values.</p> <p>This attribute is applicable to Entity Type 1 provider records only.</p> <p>Note:</p> <p>*. If the length of the provider name prefix value exceeds the maximum allowed (10 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>Entity Type 1:</p> <p>NPPES accepts only the values listed in the "Allowed Values." If the value stored in the attribute is not in the list then the EFI process will mark this record as rejected with an error code "01" in the response file.</p> <p>Entity Type 2:</p> <p>The EFI process ignores this attribute.</p>
	CMS27420300_2100CA_NM107_ProviderName Suffix	String	Optional	10	Jr. , Sr. , I, II, III, IV, V, VI, VII, VIII, IX, and X.	<p>This attribute contains the Provider Name Suffix values.</p> <p>Note:</p> <p>*. If the length of the provider name suffix value exceeds the maximum allowed (10 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated</p>

						<p>by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>Entity Type 1:</p> <p>NPPES accepts only the values listed in the "Allowed Values." If the value stored in the attribute is not in the list then the EFI process will mark this record as rejected with an error code "01" in the response file.</p> <p>Entity Type 2:</p> <p>The EFI process ignores this attribute</p>	
	CMS27420300_2100CA_NM108_IdentificationCodeQualifier	String	Optional	2	<p>24 – Employer's Identification Number,</p> <p>34 – Social Security Number (SSN),</p> <p>FI – Federal Taxpayer's Identification Number (ITIN),</p> <p>TA – Taxpayer ID Number,</p> <p>UP – Unique Physician Identification Number,</p> <p>XX – Health Care Financing Administration National Provider Identifier (NPI).</p>	<p>This attribute stores the type of the ID for this provider record.</p> <p>If the XML file contains change requests, this attribute must be set to "XX" (NPI)</p> <p>Note:</p> <p>*. If the attribute contains code values other than the ones specified in the "Allowed Values" list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. New Request – If the attribute contains the code value "XX" and the NPI is also provided in the provider record then the EFI process will mark this record as rejected with an error code "01" in the response file.</p> <p>* Change Request – The NPI number is required in this case. If the attribute does not contain "XX" then the EFI process will mark this record as rejected with an error code "01" in the response file.</p>	
	CMS27420300_2100CA_NM109	String	Optional	80	Any valid string.	For Change Requests, this attribute contains the Provider NPI (National	

	_ProviderIdentifier					<p>Provider Identification) provided by NPPES when this application became originally enumerated. The NPI is not applicable to New Application request XML files.</p> <p>Note:</p> <p>*. If the attribute contains identifiers with lengths exceeding the maximum allowed (80 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. New Requests: – the attribute must not store an NPI value. If an NPI is provided then the EFI process will mark this record as rejected with an error code “01” in the response file.</p> <p>*. Change Requests: – the attribute must store an NPI value. If an NPI is not provided then the EFI process will mark this record as rejected with an error code “01” in the response file. The EFI process will also mark the record as rejected with an error code “10” in the response file if it cannot find a corresponding record in NPPES whose NPI is the same as the one stored in the XML file.</p>	
Annotation	documentation Provider Name						
Source	<pre> <xs:element name="CMS27420300_2100CA_NM1_ProviderName"> <xs:annotation> <xs:documentation>Provider Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420300_2100CA_NM102_EntityTypeQualifier" use="required"> <xs:simpleType> <xs:restriction base="xs:int"> <xs:totalDigits value="1"/> <xs:enumeration value="1"/> <xs:enumeration value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>						

	<pre> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM103_ProviderLastOrOrganizationName" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="60"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM104_ProviderFirstName" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="35"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM105_ProviderMiddleName" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="25"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM106_ProviderNamePrefix" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="10"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM107_ProviderNameSuffix" use="optional"> <xs:simpleType> </pre>
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	<pre> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:maxLength value="10"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM108_IdentifierCodeQualifier" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="24"/> <xs:enumeration value="34"/> <xs:enumeration value="F"/> <xs:enumeration value="TA"/> <xs:enumeration value="UP"/> <xs:enumeration value="XX"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CA_NM109_ProviderIdentifier" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="80"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.10 **Element:** **CMS27420400_2100CA_N2_AdditionalProviderNameInformation**

This element is optional in the EFI XML schema. It has one attribute that contains the Provider Other Name Type code description as indicated below.

Diagram	<div><div><div>CMS27420400_2100CA_H2_Additi...</div><div>Additional Provider Name Information</div></div><div><div>attributes</div><div>CMS27420400_2100CA_H202_Pro...</div></div></div>					
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420400_2100CA_N202_ProviderDoingBusinessAsOrTradeName	String	Optional	60	Entity Type 1: Former Name, Professional Name, Other Name, and Current Name Entity Type 2: Doing Business As, Former Legal Business Name, Other Name, and Current Name.	This attribute contains Provider Other Name Type code description. This value is required if the Provider Other Name is provided. Note: *. If the attribute contains a value with length exceeding the maximum allowed (60 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. If the attribute contains values other than the ones specified in the "Allowed Values" list then the EFI process will mark this record as rejected with an error code "01" in the response file.
Annotation	documentation	Additional Provider Name Information				
Source	<xs:element name="CMS27420400_2100CA_N2_AdditionalProviderNameInformation"> <xs:annotation> <xs:documentation>Additional Provider Name Information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420400_2100CA_N202_ProviderDoingBusinessAsOrTradeName" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="60"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element>					

	</xs:simpleType> </xs:attribute> </xs:complexType> </xs:element>
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2.3.11 Element: CMS27420500_2100CA_PER_ProviderCommunicationsContact

This element contains additional information about a provider's mailing address, such as the mailing address telephone number, telephone extension, and so on. The element is optional.

Diagram						
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420500_2100CA_PER03_CommunicationNumberQualifier	String	Required	2	TE – Telephone Number EM – Electronic Mail.	This attribute contains the code value that describes the type of information being collected. The “Allowed Values” column indicates that there can only be 2 types of information, telephone number or e-mail address. Note: If the attribute contains values other than the ones specified in the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.
	CMS27420500_2100CA_PER04_Communication	String	Required	256	Any valid string	This attribute contains the actual data value corresponding to the code mentioned above.

	nNumber					<p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. If the code is "TE", this attribute contains the mailing address telephone Number; otherwise, the attribute will store the provider's e-mail address. The EFI process however, will ignore the e-mail address.</p> <p>*. NPPES does not require mailing address telephone numbers. If however, the mailing address phone number is provided, it must be represented as a 10 digit number. Otherwise the EFI process will mark this record as rejected with an error code "01" in the response file.</p> <p>Example:</p> <p>- Acceptable telephone number formats: 7032672269</p> <p>- Unacceptable telephone number formats: 703-267-2269 or 703/267/2269 or 7032672229, etc.</p> <p>*. NPPES requires that telephone numbers of foreign mailing addresses not exceed 20 characters. If the attribute contains a foreign telephone number that exceeds the maximum NPPES limit, then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 mailing</p>	
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						address telephone number. The EFI process ignores any additional telephone numbers that may be provided.
	CMS27420500_2100CA_PER05_CommunicationNumberQualifier	String	Optional	2	TE – Telephone Number EX – Telephone Extension EM – Electronic Mail FX – Facsimile.	<p>This attribute contains the code value that describes the type of information being collected. The “Allowed Values” column indicates that there can only be up to 4 types of information, telephone number, e-mail address, telephone extension, and facsimile.</p> <p>This attribute was added in order to store additional phone numbers, fax number, e-mail addresses, or telephone extensions for a particular mailing address.</p> <p>Note: If the attribute contains values other than the ones specified in the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>
	CMS27420500_2100CA_PER06_CommunicationNumber	String	Optional	256	Any valid string	<p>This attribute contains the actual data value corresponding to the code mentioned above.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. If the code is “TE” this attribute contains an additional mailing address telephone number, if the code is “EX” this attribute contains the telephone extension number, if</p>

						<p>the code is "EM" this attribute contains electronic mail address, and last, if the code is "FX" this attribute contains the mailing address Fax number.</p> <p>*. For formatting requirements of mailing address telephone numbers, see annotation comments of the CMS27420500_2100CA_PER04_CommunicationNumber attribute listed above.</p> <p>*. The EFI process ignores e-mail addresses for mailing addresses.</p> <p>*. Mailing address fax numbers are also optional. However, if the value is provided, it must be represented as a 10 digit number. Otherwise the EFI process will mark this record as rejected with error code "01" in the response file.</p> <p>*. NPPES requires that fax numbers of foreign mailing addresses not exceed 20 characters. If the attribute contains a foreign fax number that exceeds the maximum NPPES limit, then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Example:</p> <p>- Accepted fax number(s): 7032672259</p> <p>- Unacceptable fax number(s): 703-267-2259 or 703/267/2259 or 703267229, etc.</p> <p>*. NPPES stores only 1 mailing address telephone number, extension, and fax number. The EFI process ignores any additional telephone numbers, extensions, fax numbers that may be provided.</p>	
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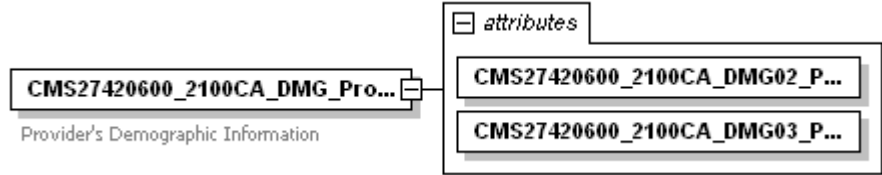
	CMS27420500_2100CA_PER07_CommunicationNumberQualifier	String	Optional	2	TE – Telephone Number EX – Telephone Extension EM – Electronic Mail FX – Facsimile.	See annotation comments for attribute CMS27420500_2100CA_PER05_CommunicationNumberQualifier.
	CMS27420500_2100CA_PER08_CommunicationNumber	String	Optional	256	Any valid string	See annotation comments for attribute CMS27420500_2100CA_PER06_CommunicationNumber.
Annotation	documentation Provider Communications Contact					
Source	<pre> <xs:element name="CMS27420500_2100CA_PER_ProviderCommunicationsContact"> <xs:annotation> <xs:documentation>Provider Communications Contact</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420500_2100CA_PER03_CommunicationNumberQualifier" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="EM"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CA_PER04_CommunicationNumber" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CA_PER05_CommunicationNumberQualifier" use="optional"> </pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="EM"/> <xs:enumeration value="EX"/> <xs:enumeration value="FX"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CA_PER06_CommunicationNumber" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CA_PER07_CommunicationNumberQualifier" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="EM"/> <xs:enumeration value="EX"/> <xs:enumeration value="FX"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CA_PER08_CommunicationNumber" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>
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	</xs:element>
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2.3.12 Element: CMS27420600_2100CA_DMG_ProviderSDemographicInformation

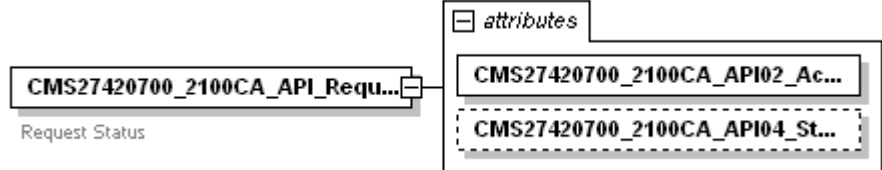
This element contains individual Provider Demographic Information, such as birth date and gender. The element is defined as optional in the EFI XML schema because it is not used for Entity Type 2 providers (organizations).

Diagram	 <p>The diagram shows a central box labeled 'CMS27420600_2100CA_DMG_ProviderSDemographicInformation' with the text 'Provider's Demographic Information' below it. To its right, a box labeled 'attributes' contains two sub-boxes: 'CMS27420600_2100CA_DMG02_ProviderBirthDate' and 'CMS27420600_2100CA_DMG03_ProviderGenderCode'.</p>					
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420600_2100CA_DMG02_ProviderBirthDate	String	Required	35	Any valid string.	<p>This attribute contains the Provider Birth Date.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (35 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. Provider date of birth is required for Entity Type 1 providers. If the value is not provided the EFI process will mark this record as rejected with error code "02" in the response file. *. The EFI process validates the Provider date of birth as well. If the value stored in the attribute is not a valid date then the EFI process will mark this record as rejected with error code "01" in the response file.
	CMS27420600_2100CA_DMG03_ProviderGenderCode	String	Required	1	F – Female M – Male U -	<p>This attribute contains the code value (F/M/U) for the Provider Gender.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains values other than the

					Unknown	<p>ones specified in the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Provider gender code is required for Entity Type 1 providers. If the value is not provided, the EFI process will mark this record as rejected.</p> <p>*. NPPES allows only the “F” or “M” gender codes. It does not recognize “U” as a valid one. If the code is “U” then the EFI process will mark this record as rejected with error code “01” in the response file.</p>
Annotation	documentation	Provider’s Demographic Information				
Source	<pre><xs:element name="CMS27420600_2100CA_DMG_ProviderSDemographicInformation"> <xs:annotation> <xs:documentation>Provider's Demographic Information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420600_2100CA_DMG02_ProviderBirthDate" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="35"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420600_2100CA_DMG03_ProviderGenderCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="1"/> <xs:enumeration value="F"/> <xs:enumeration value="M"/> <xs:enumeration value="U"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

2.3.13 Element: CMS27420700_2100CA_API_RequestStatus

This element contains NPPES application status and status reason values, (e.g. “Active”, “Pended”, “Fraud”, “Deceased”, “Other”). It is defined as optional by the EFI XML schema and it is used in the EFI response XML files. If this element does exist in new application/change request files, it is ignored by the EFI process.

Diagram						
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420700_2100CA_API02_ActionCode	String	Required	2	U – Reject 33 – Active A4 – Pended IA – Deactivate	This attribute contains the NPPES application status of the provider record (“Active”, “Rejected”, etc.). Note: If the attribute contains values other than the ones specified in the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. If the application is deactivated in NPPES, this attribute is populated with the value “IA” in the Response file. *. In the Response file, this attribute will contain one of the values from the “Allowed Values” for each record in the file. For example this attribute would be populated with A4 (Pended), 33 (Active) and so on.
	CMS27420700_2100CA_API04_StatusReasonCode	String	Optional	3	030 – Fraud A13 – Other	This attribute contains the values of the NPPES deactivation reason codes for a specific provider record (“Fraud”, “Other”, “Deceased”, etc.). This

					C20 – Complete EB1 - Deceased	attribute is situational. Note: *. The attribute is populated with a value from the “Allowed Values” list in the response file if the application is deactivated in NPPES.	
Annotation	documentation	Request Status					
Source	<pre><xs:element name="CMS27420700_2100CA_API_RequestStatus"> <xs:annotation> <xs:documentation>Request Status</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420700_2100CA_API02_ActionCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="U"/> <xs:enumeration value="33"/> <xs:enumeration value="A4"/> <xs:enumeration value="IA"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420700_2100CA_API04_StatusReasonCode" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> <xs:enumeration value="030"/> <xs:enumeration value="A13"/> <xs:enumeration value="C20"/> <xs:enumeration value="EB1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>						

2.3.14 Element: CMS27420900_2100CA_DEG_ProviderSDegreeInformation

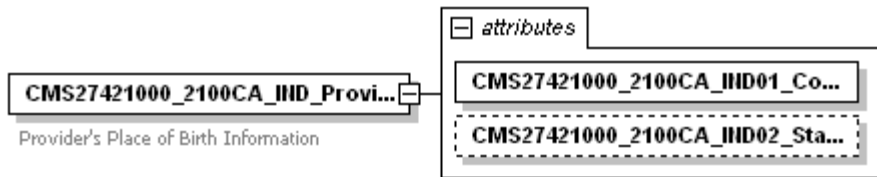
This element contains provider credentials information. It is an optional element and it can have up to 9 occurrences for each provider record in an XML data file. The EFI process will use only the first element per provider record and ignore any other occurrences for Entity Type 1 (individual) records. The EFI process will ignore this element entirely (if it exists) if the record belongs to an Entity Type 2 provider (organization).

Diagram	<div><div><div>CMS27420900_2100CA_DEG_Prov...</div><div>Provider's Degree Information</div></div><div><div>attributes</div><div>CMS27420900_2100CA_DEG04_Pr...</div></div></div>					
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420900_2100CA_DEG04_ProviderProfessionalDesignation	String	Required	80	Any valid string.	<p>This attribute contains the Provider Credentials information. It is only relevant for Entity Type 1 provider records.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (80 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>
Annotation	documentation	Provider's Degree Information				
Source	<pre><xs:element name="CMS27420900_2100CA_DEG_ProviderSDegreeInformation"> <xs:annotation> <xs:documentation>Provider's Degree Information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420900_2100CA_DEG04_ProviderProfessionalDesignation" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="80"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

	</xs:simpleType> </xs:attribute> </xs:complexType> </xs:element>
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2.3.15 Element: CMS27421000_2100CA_IND_ProviderSPlaceOfBirthInformation

This element contains provider place of birth information, such as state and country of birth. It is defined as optional in the EFI XML schema and it is only applicable to Entity Type 1 provider records in an XML data file. The EFI process will ignore this element entirely (if it exists) if the record belongs to an Entity Type 2 provider (organization).

Diagram	 <p>The diagram shows a box labeled 'CMS27421000_2100CA_IND_Provi...' with the text 'Provider's Place of Birth Information' below it. To its right, a box labeled 'attributes' contains two sub-boxes: 'CMS27421000_2100CA_IND01_Co...' and 'CMS27421000_2100CA_IND02_Sta...'.</p>					
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27421000_2100CA_IND01_CountryOfBirthCode	String	Required	3	ISO Country codes	This attribute is required for individual provider records. Note: *. If the attribute contains a value with length exceeding the maximum allowed (3 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. EFI will allow ISO standard country codes. If the value is not from the "Allowed Values" list then the EFI process will mark the record as rejected with error code "01" in the response file.
	CMS27421000_2100CA_IND02_StateOrProvinceOfBirthCode	String	Optional	2	State codes in United States.	This attribute must be populated if the country code is "US." Note: *. If the attribute contains a value with

						<p>length exceeding the maximum allowed (2 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. If the country code is “US”, but the value of the state code is unrecognized (as a US state) then the EFI process will mark the record as rejected with error code “01” in the response file.</p>
Annotation	documentation	Provider's Place of Birth Information				
Source	<pre><xs:element name="CMS27421000_2100CA_IND_ProviderSPPlaceOfBirthInformation"> <xs:annotation> <xs:documentation>Provider's Place of Birth Information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27421000_2100CA_IND01_CountryOfBirthCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27421000_2100CA_IND02_StateOrProvinceOfBirthCode" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

2.3.16 Element: CMS27421200_2100CA_DTP_ProviderSactionDate

This element contains the provider application enumeration date. The EFI XML schema defines this element as optional. The element is most relevant in EFI response files. It is not applicable at all to XML files containing new application requests.

Diagram	<div><div><div>CMS27421200_2100CA_DTP_Prov...</div><div>Provider's Action Date</div></div><div><div>attributes</div><div><div>CMS27421200_2100CA_DTP03_Da...</div></div></div></div>					
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27421200_2100CA_DTP03_DateTimePeriod	String	Required	35	Any valid string.	<p>This attribute contains the provider record's enumeration date.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (35 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. NPPES allows only 10 characters for any Date information. If the length of the attribute value is more than 10 characters then the EFI process will mark the record as rejected for validation purposes. The record will also be marked as rejected with error code "01" in the response file if the 10 character string does not evaluate to a valid date.</p>
Annotation	documentation	Provider's Action Date				
Source	<pre><xs:element name="CMS27421200_2100CA_DTP_ProviderSactionDate"> <xs:annotation> <xs:documentation>Provider's Action Date</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27421200_2100CA_DTP03_DateTimePeriod" use="required"></pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="35"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.17 Element: CMS27421300_2100CA_MTX_RequestStatusAdditionalDetail

This element is found in the response file. It contains additional details or comments for records of applications that have become deactivated in NPPES with a deactivation reason of A13 -“Other” (see attribute **CMS27420700_2100CA_API04_StatusReasonCode**). The EFI XML schema has defined this element as optional. If this element does exist in new application/change request files, it is ignored by the EFI process.

Diagram	<div><div><div><div><div></div><div>CMS27421300_2100CA_MTX_Req...</div></div><div>Request Status Additional Detail</div></div><div><div>attributes</div><div><div>CMS27421300_2100CA_MTX02_T...</div></div></div></div></div>					
Used by	element	CMS27420300 2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27421300_2100CA_MTX02_TextualData	String	Required	4096	Any valid string.	<p>This attribute is populated with a deactivation reason description (free-form text) in the response file if the application is deactivated in NPPES with a deactivation reason code A13 (other).</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (4096 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>
Annotation	documentation	Request Status Additional Detail				
Source	<xs:element name="CMS27421300_2100CA_MTX_RequestStatusAdditionalDetail">					

	<pre> <xs:annotation> <xs:documentation>Request Status Additional Detail</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27421300_2100CA_MTX02_TextualData" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="4096"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.18 Element: CMS27421400_2100CA_CRC_EFIProcessingStatusAdditional

This element stores information about the record’s processing status (described as operation indicator codes). The element is defined as optional by the EFI XML schema and can occur more than once within a provider record in an XML file.

The attributes CMS27421400_2100CA_CRC03_ConditionIndicator and CMS27421400_2100CA_CRC05_ConditionDetail contain the code and detail description, respectively. They explain the record’s processing status and also help the user to determine why a particular record fails in EFI validation.

Note: The attribute CMS27421400_2100CA_CRC03_ConditionIndicator may not exist in the EFI response file for a record that is simply pending in the system and waiting for enumeration.

Diagram	<pre> classDiagram class CMS27421400_2100CA_CRC_EFIProcessingStatusAdditional { CMS27421400_2100CA_CRC03_ConditionIndicator CMS27421400_2100CA_CRC04_ConditionIndicator CMS27421400_2100CA_CRC05_ConditionDetail } </pre>					
Used by	element	CMS27420300_2100CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27421400_2100CA_CRC03_ConditionIndicator	String	Required	3	OK,ER, 01, 02, 03, 04, 05, 06, 07, 08, 09,10, 12, 13, and 14	This attribute contains information that indicates the status of the request. This information is supplied only in

						<p>the EFI response files.</p> <p>Refer to table 2-1 below for codes and their descriptions.</p> <p>Note: If the attribute contains a value outside the "Allowed Values" list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>
	CMS27421400_2100CA_CRC04_ConditionIndicator	String	Optional	3	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, and 13.	<p>Refer to table 2-2 below for codes and their descriptions.</p> <p>Note:</p> <p>*. These codes are not used by NPPES in Release 1.1.</p> <p>*. If the attribute contains a value outside the "Allowed Values" list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. The EFI process does not currently use this information and therefore it will ignore it.</p>
	CMS27421400_2100CA_CRC05_ConditionDetail	String	Optional	255	Any valid string.	<p>*. This attribute contains detailed description that indicates the status of the request. This information is supplied only in the EFI response files.</p> <p>*. This attribute will help users to determine the exact reason(s) why a particular record was rejected. Also, if a record has more than one pre-processing edit errors, the response file will include condition indicator code</p>

						and condition detail for each separate incident.	
Annotation	documentation	EFI Processing Status Additional					
Source	<pre><xs:element name="CMS27421400_2100CA_CRC_EFIProcessingStatusAdditional"> <xs:annotation> <xs:documentation>EFI Processing Status Additional</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27421400_2100CA_CRC03_ConditionIndicator" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> <xs:enumeration value="OK"/> <xs:enumeration value="ER"/> <xs:enumeration value="01"/> <xs:enumeration value="02"/> <xs:enumeration value="03"/> <xs:enumeration value="04"/> <xs:enumeration value="05"/> <xs:enumeration value="06"/> <xs:enumeration value="07"/> <xs:enumeration value="08"/> <xs:enumeration value="09"/> <xs:enumeration value="10"/> <xs:enumeration value="12"/> <xs:enumeration value="13"/> <xs:enumeration value="14"/> <xs:enumeration value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27421400_2100CA_CRC04_ConditionIndicator" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> </pre>						

	<xs:enumeration value="01"/> <xs:enumeration value="02"/> <xs:enumeration value="03"/> <xs:enumeration value="04"/> <xs:enumeration value="05"/> <xs:enumeration value="06"/> <xs:enumeration value="07"/> <xs:enumeration value="08"/> <xs:enumeration value="09"/> <xs:enumeration value="10"/> <xs:enumeration value="11"/> <xs:enumeration value="12"/> <xs:enumeration value="13"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element>
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Table 2-1 Operation Indicator Codes

Code	Description	Annotation
OK	Accepted	Application is accepted for processing.
ER	Unspecified Error	Application is rejected due to unspecified errors.
01	Failed Field Edits	Application is failed in field edits. Example: Telephone number does not contain 10 digits.
02	Minimum Fields Missing	Missing minimum field(s) required for successful provision of an NPI. Example: Provider First Name is not provided for Entity Type 1 record. EIN is not provided for Entity Type 2 record.
03	Exact Duplicate	Exact SSN match with an existing record.
04	Rejected by NPI Enumerator	Application is failed because an enumerator staff user determined that this record already exists.
05	Invalid Taxonomy Code	Taxonomy code entered does not exist in the system.

06	Taxonomy Code Mismatch	Non-provider taxonomy is supplied, or organization taxonomy is applied to an individual provider.
07	SSN Validation Error	Application is failed in SSA validation.
08	Mailing Address Error	Address codes not found/invalid.
09	Location Address Error	Address codes not found/invalid.
10	NPI not on File	In change request NPI was either not provided or provided NPI not found in the NPPES database.
12	Pended by Gatekeeper	Gatekeeper routines have flagged the record for Enumerator review.
13	Pended by L/S/T	L/S/T edits have flagged the record for Enumerator review.
14	Duplicate record	Exact duplicate of another record in the file or record already exists in the NPPES database.

Note: For additional information on possible user corrective action, see *Appendix, Section 4.4*.

Table 2-2 NPI Inquiry Response Codes

Code	Description	Annotation
01	Individual Verification - Found	Request fulfilled
02	Individual Verification - Not Found	No record matching criteria was found
03	Individual Verification - Close Match	A record closely matching the criteria was found
04	Individual Verification - Insufficient Data	Insufficient matching criteria was supplied by the requesting party
05	Organization Verification - Found	Request fulfilled
06	Organization Verification - Not Found	No record matching the criteria was found
07	Organization Verification - Close Match	A record closely matching the criteria was found
08	Organization Verification - Insufficient Data	Insufficient matching criteria was supplied by the requesting party
09	Individual Data Dissemination - Fulfilled	Request fulfilled
10	Individual Data Dissemination - Not Fulfilled	No records matching the criteria were found
11	Organization Data Dissemination - Fulfilled	Request fulfilled
12	Organization Data Dissemination - Not Fulfilled	No records matching the criteria were found
13	Unspecified Response	Unexpected conditions

2.3.19 Element: CMS27422100_2110CA

This element serves as a container for provider mailing address information. It is defined as required by the EFI XML schema and it consists of 3 child elements. The EFI XML schema allows up to 2 occurrences of this element for each provider record in the XML data file, however the EFI process will only use the first one. The other address information will be ignored because NPPES only stores one mailing address for a provider record.

Note: If this element is not provided at least once in every provider record, then the XML files will fail schema validation. The EFI process will ignore the file entirely. No response file will be generated and the EFI participant will be notified via e-mail only.

diagram			
children	<p>CMS27422100 2110CA NX1 ProviderAddressType: this element contains the provider address type code.</p> <p>CMS27422300 2110CA N3 ProviderSStreetAddress : this element contains provider mailing address street details.</p> <p>CMS27422400 2110CA N4 ProviderSGeographicLocation: this element contains provider mailing address geographic location details.</p>		
used by	element	CMS27420300 2100CA	
annotation	documentation	Provider Address Type	
source	<pre> <xs:element name="CMS27422100_2110CA"> <xs:annotation> <xs:documentation>Provider Address Type</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27422100_2110CA_NX1_ProviderAddressType"/> <xs:element ref="CMS27422300_2110CA_N3_ProviderSStreetAddress"/> <xs:element ref="CMS27422400_2110CA_N4_ProviderSGeographicLocation"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.20 Element: CMS27422100_2110CA_NX1_ProviderAddressType

This element is defined as required by the EFI XML schema. It has one attribute containing provider address type information.

Diagram			
Used by	element	CMS27422100 2110CA	

Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27422100_2110CA_NX101_AddressTypeCode	String	Required	3	31 - Postal Mailing Address 8B – Primary Residence Address	<p>This attribute contains the address type code indicating the address supplied is a mailing address or a primary residence address.</p> <p>Note:</p> <p>Note: If the attribute contains a value outside the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. NPPES will only collect the mailing address.</p> <p>*. If two Mailing Address codes are provided the EFI process will choose only one (the first one).</p> <p>*. The EFI process will ignore the primary residence address.</p> <p>*. If two primary residence addresses codes are provided then the EFI process will mark the record as rejected with error code “01” in the response file.</p>
Annotation	documentation	Provider Address Type				
Source	<pre><xs:element name="CMS27422100_2110CA_NX1_ProviderAddressType"> <xs:annotation> <xs:documentation>Provider Address Type</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422100_2110CA_NX101_AddressTypeCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> <xs:enumeration value="31"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

	<pre> <xs:enumeration value="8B"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
--	--

2.3.21 Element: CMS27422300_2110CA_N3_ProviderSStreetAddress

This element is defined as required by the EFI XML schema. It has two attributes containing provider mailing street address details.

Diagram	<pre> graph LR Element[CMS27422300_2110CA_N3_ProviderSStreetAddress] subgraph Attributes A1[CMS27422300_2110CA_N301_ProviderAddressLine] A2[CMS27422300_2110CA_N302_ProviderAddressLine] end Element --- A1 Element --- A2 </pre>					
Used by	element	CMS27422100_2110CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27422300_2110CA_N301_ProviderAddressLine	String	Required	55	Any valid string.	<p>This attribute contains Provider Mailing Street Address Line 1 information.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (55 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the record as rejected will error code "02" in the response file.
	CMS27422300_2110CA_N302_ProviderAddressLine		optional	55	Any valid string.	<p>This attribute contains Provider Mailing Street Address Line 2 information.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (55

						characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.	
Annotation	documentation	Provider's Street Address					
Source	<pre><xs:element name="CMS27422300_2110CA_N3_ProviderSStreetAddress"> <xs:annotation> <xs:documentation>Provider's Street Address</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422300_2110CA_N301_ProviderAddressLine" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="55"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422300_2110CA_N302_ProviderAddressLine" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="55"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>						

2.3.22 Element: CMS27422400_2110CA_N4_ProviderSGeographicLocation

This element is defined as required by the EFI XML schema and it has 4 attributes containing additional provider mailing address information details, such as city, state name, postal or zip codes, and country code.

Note: NPPES accepts domestic, foreign and mailing addresses. The EFI process will determine the type of mailing address by examining the value of the country code.

Diagram	<p>The diagram illustrates the element CMS27422400_2110CA_N4_Provi... (labeled "Provider's Geographic Location") and its four attributes: CMS27422400_2110CA_H401_Pro..., CMS27422400_2110CA_H402_Pro..., CMS27422400_2110CA_H403_Pro..., and CMS27422400_2110CA_H404_Pro.... A legend indicates that the attributes are shown in a box labeled "attributes".</p>					
Used by	element	CMS27422100 2110CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27422400_2110CA_N401_ProviderCityName	String	Required	30	Any valid string.	<p>This attribute contains the provider mailing address city name.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (30 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the record as rejected with error code "02" in the response file. *. NPPES allows city names to be up to 40 characters long. The EFI process populates only the first 30 characters of this attribute when generating the response files in order to avoid EFI XML schema validation errors.
	CMS27422400_	String	Required	2	Any valid	The attribute contains the provider mailing

	2110CA_N402_ ProviderStateCode				string.	<p>address state code.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (2 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the record as rejected with error code "02" in the response file. *. NPPES allows the state information to be up to 40 characters long (for foreign addresses). The EFI process populates only the first 2 characters of the state information into the response files in order to avoid EFI XML schema validation errors. *. If the address is domestic, the attribute can only contain values from U.S. state codes standard list. Otherwise, the EFI process will mark the record as rejected with error code "01" in the response file.
	CMS27422400_ 2110CA_N403_ ProviderPostalZoneOrZipCode	String	Required	15	Any valid string.	<p>This attribute contains the provider mailing address postal or zip code.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (15 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This attribute must be populated with a non-blank value (all spaces). In addition, zip codes must be either 5 or 9 digits long (numeric). Otherwise the EFI process will mark the record as rejected with error code "02" in the response file. *. NPPES allows zip codes to be up to 9

						characters long (5 or 9) and foreign postal codes up to 20 characters long. When working with foreign addresses, the EFI process will only store the first 15 characters of the postal code in the response files to avoid EFI XML schema validation errors.
	CMS27422400_2110CA_N404_ProviderCountry Code	String	Optional	3	Any valid string.	<p>This attribute contains the provider mailing address country code.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (3 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. The EFI process uses this field to determine whether it is working with a domestic or foreign address. If the country code is U.S then the EFI process treats the mailing address as domestic and applies the appropriate validations.</p> <p>*. Country code must be from the ISO standard list. Otherwise the EFI process will mark the record as rejected with error code "01" in the response file.</p>
Annotation	documentation	Provider's Geographic Location				
Source	<pre><xs:element name="CMS27422400_2110CA_N4_ProviderSGeographicLocation"> <xs:annotation> <xs:documentation>Provider's Geographic Location</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422400_2110CA_N401_ProviderCityName" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="30"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

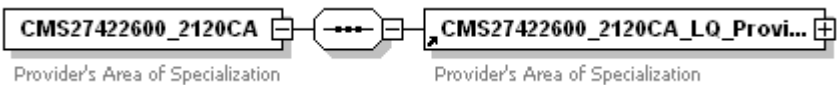
	<pre> </xs:attribute> <xs:attribute name="CMS27422400_2110CA_N402_ProviderStateCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422400_2110CA_N403_ProviderPostalZoneOrZipCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422400_2110CA_N404_ProviderCountryCode" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.23 Element: CMS27422600_2120CA

This element acts as a container for provider taxonomy information details. The element is defined as required by the EFI XML schema and it must occur at least once within every provider record in an XML file.

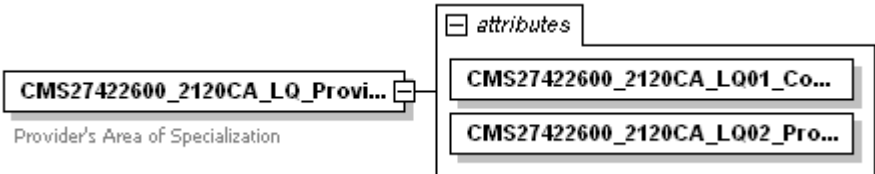
Note:

- NPPES limits the number of taxonomies to a maximum of 15 unique taxonomies per provider. If there are more than 15 taxonomies in a provider record then the EFI process will ignore the additional ones.
- The absence of this element in a provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram			
Children	CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization		
Used by	element	CMS27420300_2100CA	
Annotation	documentation	Provider's Area of Specialization	
Source	<pre> <xs:element name="CMS27422600_2120CA"> <xs:annotation> <xs:documentation>Provider's Area of Specialization</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.24 Element: CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization

This element is defined as required by the EFI XML schema and it has 2 attributes containing the actual taxonomy code information.

Diagram							
Used by	element	CMS27422600_2120CA					
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation	
	CMS27422600_2120CA_LQ01_CodeListQualifierCode	Integer	Required	3	Any valid integer	This attribute contains the provider area of specialization code. This is usually the first 2 digits of the provider's taxonomy number. Note: *. This attribute is not used by the EFI process.	

	CMS27422600_2120CA_LQ02_ProviderSpecialityCode	String	Required	30	Any valid sting.	<p>This attribute contains the provider taxonomy number.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (30 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. This attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the record as rejected with error code "02" in the response file.</p> <p>*. Taxonomy codes are 10 characters long. If the attribute contains code values that are not 10 characters long, the record will fail EFI process validation. This record will be marked as rejected with error code "01" in the response file.</p> <p>*. If the attribute contains a taxonomy that does not exist in NPPES, the record will fail EFI process validation. The record will be marked as rejected with an error code "05" in the response file.</p> <p>*. If the attribute contains a taxonomy that does not belong to the type of provider in the record (e.g. an individual is assigned the taxonomy of a hospital), it will fail EFI process validation. The record will be marked as rejected with an error code "06" in the response file.</p>
Annotation	documentation	Provider's Area of Specialization				
Source	<pre><xs:element name="CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization"> <xs:annotation> <xs:documentation>Provider's Area of Specialization</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422600_2120CA_LQ01_CodeListQualifierCode" use="required"></pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:int"> <xs:totalDigits value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422600_2120CA_LQ02_ProviderSpecialityCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="30"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.25 Element: CMS27423200_2130CA

This element acts as a container for provider licensing (license number, issuing state) information. It is defined as required by the EFI XML schema and it must occur at least once within every provider record in an XML file.

Note:

- The absence of this element in a provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.
- According to the EFI XML schema, this element can occur up to 99 times within each provider record. NPPES allows a maximum of 15 unique licensing number/state combinations. The EFI process will ignore any additional licensing information.
- NPPES maintains a relationship between the taxonomy codes and the licensing information. The EFI XML schema does not define such a relationship. The EFI process imposes a relationship between the taxonomy codes and the licensing information through the following rules:
 - 1.1. The number of taxonomies in a provider record must be the same as the number of licensing number/state combinations. Otherwise, the record fails EFI process validation and is marked as rejected. Because some taxonomy codes do not require licensing information, the EFI participant must fill out the licensing number and state information with blanks to ensure that the numbers match.
 - 1.2. The EFI process system will take the first taxonomy from the element **CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization** and the first license/state combination from element **CMS27423200_2130CA_HPL_ProviderLicenseCertificationRegistration** and “match” them in the NPPES database (if field validations are passed). Then the process continues with the rest of taxonomies, license/state combinations in the same manner.

Diagram	<p>The diagram shows a box labeled 'CMS27423200_2130CA' with the text 'Provider License/Certification/Registration' below it. This box is connected by a dashed line to another box labeled 'CMS27423200_2130CA_HPL_Prov...' with the same text below it. The second box has a small square icon with a plus sign in the top right corner.</p>		
Children	CMS27423200_2130CA_HPL_ProviderLicenseCertificationRegistration		
Used by	element	CMS27420300_2100CA	
Annotation	documentation	Provider License/Certification/Registration	
Source	<pre> <xs:element name="CMS27423200_2130CA"> <xs:annotation> <xs:documentation>Provider License/Certification/Registration</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27423200_2130CA_HPL_ProviderLicenseCertificationRegistration" minOccurs="0"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.26 Element : **CMS27423200_2130CA_HPL_ProviderLicenseCertificationRegistration**

This element is defined as optional by the EFI XML schema and has 2 attributes containing provider licensing (license number and issuing state) information.

Diagram	<p>The diagram shows a box labeled 'CMS27423200_2130CA_HPL_Prov...' with the text 'Provider License/Certification/Registration' below it. To the right of this box is a legend box labeled 'attributes' containing two entries: 'CMS27423200_2130CA_HPL02_Pr...' and 'CMS27423200_2130CA_HPL04_Is...'.</p>						
Used by	element	CMS27423200_2130CA					
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation	
	CMS27423200_2130CA_HPL02_ProviderIdentificationNumber	String	Required	50	Any valid string.	This attribute contains the provider license number information for a particular taxonomy. Note: *. If the attribute contains a value with length exceeding the maximum allowed	

						<p>(50 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Due to the considerations mentioned in section 2.3.25, it is possible for this attribute to be filled with blank characters.</p> <p>*. NPPES allows license numbers to be up to a maximum of 20 characters long. If the attribute contains a license number that exceeds 20 characters then the provider record will fail the EFI process validation and will be marked as rejected with error code "01" in the response file.</p>	
	CMS27423200_ 2130CA_HPL04 _IssuingStateCode	String	Optional	2	Any valid string.	<p>This attribute contains the state code where the license number was issued to the provider.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (2 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Due to the considerations mentioned in section 2.3.25, it is possible for this attribute to be filled with blank characters.</p> <p>*. If the attribute does contain a state code value, then the code must belong in the U.S. standard state code list. Otherwise the provider record will fail EFI process validation and will be marked as rejected with error code "01" in the response file.</p>	
Annotation	documentation	Provider License/Certification/Registration					

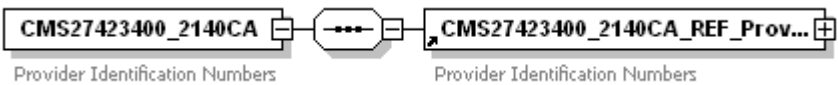
Source	<pre> <xs:element name="CMS27423200_2130CA_HPL_ProviderLicenseCertificationRegistration"> <xs:annotation> <xs:documentation>Provider License/Certification/Registration</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27423200_2130CA_HPL02_ProviderIdentificationNumber" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="50"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27423200_2130CA_HPL04_IssuingStateCode" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.27 Element: CMS27423400_2140CA

This element acts as a container for different types of identification numbers that a provider may have aside from the ones assigned by NPPES. It is defined as an optional element by the EFI XML schema and it can occur multiple times within provider records in an XML file.

Note:

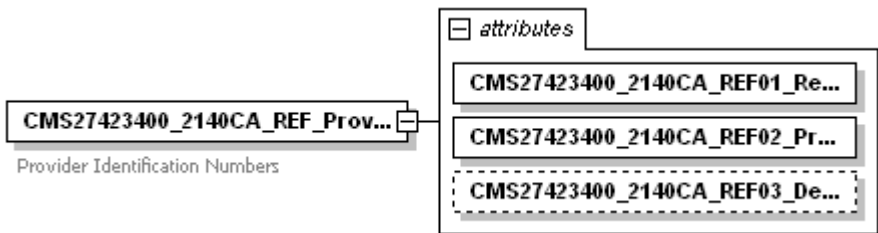
- The EFI XML schema does not impose an upper limit on the number of occurrences of this element. NPPES on the other hand allows a maximum of 20 other ID-s for each provider. The EFI XML schema dictates that this element also serves as the placeholder for either SSN/ITIN or EIN values. The EFI process takes these conditions into account and it allows up to 21 occurrences of this element for each provider record in the XML file (1 SSN/ITIN or EIN and 20 other ID-s). All other identifiers are ignored.
- Even though the schema defines this element as optional, SSN/ITIN and EIN are required data for NPPES. The enforcement of this requirement is performed by the EFI process validation. If a provider record does not contain an SSN/ITIN (Entity Type 1) or EIN instance of this element, it will fail the EFI process validation and will be marked as rejected (error code 02).

Diagram			
Children	CMS27423400_2140CA_REF_ProviderIdentificationNumbers		
Used by	element	CMS27420300_2100CA	
Annotation	documentation	Provider Identification Numbers	
Source	<pre> <xs:element name="CMS27423400_2140CA"> <xs:annotation> <xs:documentation>Provider Identification Numbers</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27423400_2140CA_REF_ProviderIdentificationNumbers"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.28 Element: CMS27423400_2140CA_REF_ProviderIdentificationNumbers

This element is defined as required by the EFI XML schema. It has 3 attributes containing provider other identification number information.

Note: If the parent of this element exists ([CMS27423400_2140CA](#)) in a provider record, then the absence of this element in that provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram						
Used by	element	CMS27423400_2140CA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27423400_2140CA_REF01_ReferencIdent	String	Required	3	Code – Description: 1A – Blue Cross	This attribute contains the provider other identification type code.

	ificationQualifier				<p>Provider Number</p> <p>1B – Blue Shield Provider Number</p> <p>1C – Medicare Provider Number</p> <p>1D – Medicaid Provider Number</p> <p>1G – Provider UPIN Number</p> <p>1H – CHAMPUS Identification Number</p> <p>EI – Employer's Identification Number (EIN)</p> <p>G2 – Provider Commercial Number</p> <p>SY- Social Security Number (SSN)</p> <p>TJ – Federal Taxpayer's Identification Number (ITIN)</p> <p>TX – Tax Exempt Number</p> <p>VT- Motor Vehicle ID Number</p>	<p>Note:</p> <p>*. If the attribute contains a value outside the "Allowed Values" list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Currently, NPPES stores only a fraction of the other ID-s collected by the 274 transaction set. They are Medicare, Medicaid, and UPIN. All other ID-s are grouped under "Other." The EFI process will treat any ID-s other than the 3 above and SSN (SY), ITIN (TJ), and EIN (EI), as "Other."</p>
	CMS27423400_2140CA_REF02_ProviderIdentifier	String	Required	50	Any valid string	<p>This attribute contains the actual provider identifier.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (50 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>

						<p>*. If the other identification type code has been provided, this attribute cannot contain blank values. Otherwise, the provider record will fail the EFI process validation and it will be marked as rejected with error code "02" in the response file.</p> <p>*. NPPES imposes a 20 character length limit on provider other ID-s. If that attribute contains an identifier that exceeds that limit, the provider record will fail the EFI process validation and it will be marked as rejected with error code "01" in the response file.</p> <p>*. SSN/ITIN and EIN are 9 digit identifiers. If the attribute contains an SSN/ITIN or EIN that is not 9 digits long, the provider record will fail the EFI process validation and it will be marked as rejected with error code "01" in the response file.</p>
	CMS27423400_2140CA_REF03_Description	String	Optional	80	Any valid string.	<p>This attribute contains either a US state code or a description for a provider other ID. This attribute is not used when the identifier is SY (SSN), TJ (ITIN) or EI (EIN).</p> <p>Table 2-3 provides the different requirements that must be fulfilled when submitting provider identification information.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (80 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. If the attribute contains a state code (Medicaid ID-s) but the value is</p>

						<p>not found in the U.S. standard state code list then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. If the state code is required (e.g. for Medicaid ID-s) but is missing, the provider record will fail EFI process validation. The record will be marked as rejected by the system with error code "02" on response files.</p> <p>*. NPPES limits the length of the description to a maximum of 25 characters only.</p> <p>*. If the description is required (ID-s that are not UPIN, Medicare, Medicaid, SSN, ITIN,EIN) and the contents exceed the 25 character maximum then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. If the description is required but it missing, the provider record will fail EFI process validation and it will be marked as rejected with error code "01" in the response file.</p>
Annotation	documentation	Provider Identification Numbers				
Source	<pre><xs:element name="CMS27423400_2140CA_REF_ProviderIdentificationNumbers"> <xs:annotation> <xs:documentation>Provider Identification Numbers</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27423400_2140CA_REF01_ReferenceIdentificationQualifier" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> <xs:enumeration value="1A"/> </xs:restriction> </xs:simpleType> </xs:complexType> </xs:element></pre>					

	<pre> <xs:enumeration value="1B"/> <xs:enumeration value="1C"/> <xs:enumeration value="1D"/> <xs:enumeration value="1G"/> <xs:enumeration value="1H"/> <xs:enumeration value="EI"/> <xs:enumeration value="G2"/> <xs:enumeration value="SY"/> <xs:enumeration value="TJ"/> <xs:enumeration value="TX"/> <xs:enumeration value="VT"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27423400_2140CA_REF02_ProviderIdentifier" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="50"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27423400_2140CA_REF03_Description" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="80"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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Table 2-3 Provider Identification Codes

Code	Description	Annotation
1A	Blue Cross Provider Number	NPPES doesn't know about Blue Cross Provider numbers. The EFI process will convert this code to "Other" type.
1B	Blue Shield Provider Number	NPPES doesn't know about Blue Shield Provider numbers. The EFI process will convert this code to "Other" type.

1C	Medicare Provider Number	NPPES does not require state or description information for Medicare provider numbers.
1D	Medicaid Provider Number	NPPES does require state information for Medicaid Provider Numbers.
1G	Provider UPIN Number	NPPES does not require state or description information for UPIN numbers.
1H	CHAMPUS Identification Number	NPPES doesn't know about CHAMPUS Identification numbers. The EFI process will convert this code to "Other" type.
EI	Employer's Identification Number (EIN)	<p>If the first attribute of 2.3.27 element (CMS27423400_2140CA_REF01_ReferenceIdentificationQualifier) holds the code "EI" then the value entered in the second attribute of this element (CMS27423400_2140CA_REF02_ProviderIdentifier) is treated as EIN value by the EFI process.</p> <p>Furthermore, if the code is "EI" then the 3rd attribute (description) is ignored by the EFI process.</p> <p>Note:</p> <ul style="list-style-type: none"> *. Entity Type 1 providers; if EIN value is provided such information is ignored by the EFI process. *. Entity Type 2 providers; if EIN is not provided then the provider record will fail EFI process validation and it will be marked as rejected with error code "02" in the response file.
G2	Provider Commercial Number	NPPES doesn't know about Provider Commercial numbers. The EFI process will convert this code to "Other" type.
SY	Social Security Number (SSN)	<p>If the first attribute of 2.3.27 element (CMS27423400_2140CA_REF01_ReferenceIdentificationQualifier) contains the code "SY", then the value entered in the second attribute of this element (CMS27423400_2140CA_REF02_ProviderIdentifier) is treated as SSN value by the EFI process.</p> <p>Furthermore, if the code is "SY" then the 3rd attribute (description) is ignored by the EFI process.</p> <p>Note:</p> <ul style="list-style-type: none"> *. Entity Tpe 2 providers; if SSN value is provided, such information is ignored by the EFI process. *. Entity Type 1 providers; if SSN is not provided then the record will fail EFI process validation and it will be marked as rejected with error code "02" in the response file. *. Entity Type 1 providers: if both SSN and ITIN values are provided the EFI process will always use the SSN and ignore the ITIN, unless the record denotes a change request on a provider who originally entered an

		ITIN. In this case ITIN is not ignored; instead it is used for data comparisons.
TJ	Federal Taxpayer's Identification Number (ITIN)	<p>If the first attribute of 2.3.27 element (CMS27423400_2140CA_REF01_ReferenceIdentificationQualifier) contains the code "TJ" then the value entered in the second attribute of this element (CMS27423400_2140CA_REF02_ProviderIdentifier) is treated as ITIN value by the EFI process.</p> <p>Furthermore, if the code is "TJ" then the 3rd attribute (description) is ignored by the EFI process.</p> <p>Note:</p> <ul style="list-style-type: none"> *. Entity Type 2 providers; if ITIN value is provided, such information is ignored by the EFI process. *. Entity Type 1 providers; ITIN is optional. *. Entity Type 1 providers: if both SSN and ITIN values are provided the EFI process will always use the SSN and ignore the ITIN unless the record denotes a change request on a provider who originally entered an ITIN. In this case ITIN is not ignored; instead it is used for data comparisons..
TX	Tax Exempt Number	NPPES doesn't know about Tax Exempt numbers The EFI process will convert this code to "Other" type.
VT	Motor Vehicle ID Number	NPPES doesn't know about Motor Vehicle ID numbers The EFI process will convert this code to "Other" type.

2.3.29 Element: CMS27420300_2100CD

This element acts as a container for a miscellaneous set of data which includes authorized representative, contact person, and/or provider other name information. This element is defined as required by the EFI XML schema and it can occur more than once within provider records in an XML file.

In the EFI schema the authorized official, contact person, and other provider name information is referred to as "Affiliated Entity Name" information.

Note: The absence of this element in a provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram			
Children	<p>CMS27420300_2100CD_NM1_AffiliatedEntityName: This element contains authorized official, contact person, other provider name details.</p> <p>CMS27420500_2100CD_PER_AffiliatedEntityContactInformation : This element contains authorized official, contact person contact information details.</p> <p>CMS27420600_2100CD_DEG_AffiliatedEntitySCredentials : This element contains authorized official, contact person credentials details.</p> <p>CMS27421300_2100CD_MTX_AffiliatedEntitySTitle: This element contains authorized official, contact person title information.</p>		
Used by	element	CMS27420100_2000C	
Annotation	documentation	Affiliated Entity Name	
Source	<pre> <xs:element name="CMS27420300_2100CD"> <xs:annotation> <xs:documentation>Affiliated Entity Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420300_2100CD_NM1_AffiliatedEntityName" minOccurs="0"/> <xs:element ref="CMS27420500_2100CD_PER_AffiliatedEntityContactInformation" minOccurs="0"/> <xs:element ref="CMS27420600_2100CD_DEG_AffiliatedEntitySCredentials" minOccurs="0"/> <xs:element ref="CMS27421300_2100CD_MTX_AffiliatedEntitySTitle" minOccurs="0"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.30 Element: CMS27420300_2100CD_NM1_AffiliatedEntityName

This element contains authorized official, contact person, or provider other name information. The element is defined as optional by the EFI XML schema.

Note:

- NPPES requires contact person information for both its Entity Type 1 and 2 providers. The EFI process will enforce this requirement when validating the provider records in an XML file. If a provider record does not have at least one instance of this element with contact person information in it, then this record will fail EFI process validation and it will be marked as rejected in the response file (error code 02).
- NPPES requires authorized official information for its Entity Type 2 providers (organizations). The EFI process will enforce this requirement when validating the provider records in an XML file. If a provider record does not have at least one instance of this element with authorized official information in it, then this record will fail EFI process validation and it will be marked as rejected in the response file (error code 02).

Diagram						
Used by	element	CMS27420300_2100CD				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420300_2100CD_NM101_EntityIdentifier Code	String	Required	3	Code Description: 1K - Franchisor 2D – Miscellaneous Health Care Facility 2K – Partnership 80 – Hospital 87 – Pay-to-Provider	This attribute contains the code that determines whether the element is storing authorized representative, contact person, or other provider name information. Note: *. If the attribute contains a value outside the “Allowed Values” list then the entire XML

					BB – Business Partner BV – Billing Service LZ – Local Chain NK – National Chain NN – Network Name S0 – Sole Proprietor J2 – Authorized Official XD – Alias (Provider Other Name Type) VI – Contact Person	file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. NPPES only collects information on authorized officials, other provider name information (Alias), and contact personnel (J2, XD, VI). The EFI process will ignore any other information. *. NPPES does not collect Authorized Official Information for its Entity Type 1 providers (individuals). The EFI process will ignore authorized official information if it is part of an Entity Type 1 provider record.
	CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName	String	Required	60		This attribute contains: -Provider other last name if the affiliated entity type code is XD and the provider is an individual (Entity Type 1), - organization other name if the affiliated entity type code is XD and the provider is an organization (Entity Type 2), - authorized official last name if the affiliated entity type code is J2, or - contact person last name if the affiliated entity type code is VI. Note: *. If the attribute contains a value with length exceeding the maximum allowed (60 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be

						<p>generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>Refer to Table-2-4 (Affiliated Entity Name) below for more details.</p>
	CMS27420300_2100CD_NM104_AffiliatedEntityFirstName	String	Optional	35		<p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (35 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-4 (Affiliated Entity Name) below for more details.</p>
	CMS27420300_2100CD_NM105_AffiliatedEntityMiddleName	String	Optional	25		<p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (25 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-4 (Affiliated Entity Name) below for more details.</p>
	CMS27420300_2100CD_NM106_AffiliatedEntityNamePrefix	String	Optional	10		<p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (10 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be</p>

						<p>generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-4 (Affiliated Entity Name) below for more details.</p>
	CMS27420300_2100CD_NM107_AffiliatedEntityNameSuffix	String	Optional	10		<p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (10 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-4 (Affiliated Entity Name) below for more details.</p>
Annotation	documentation	Affiliated Entity Name				
Source	<pre><xs:element name="CMS27420300_2100CD_NM1_AffiliatedEntityName"> <xs:annotation> <xs:documentation>Affiliated Entity Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420300_2100CD_NM101_EntityIdentifierCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> <xs:enumeration value="1K"/> <xs:enumeration value="2D"/> <xs:enumeration value="2K"/> <xs:enumeration value="80"/> <xs:enumeration value="87"/> <xs:enumeration value="BB"/> <xs:enumeration value="BV"/> </xs:restriction> </xs:simpleType> </xs:complexType> </xs:element></pre>					

	<pre> <xs:enumeration value="LZ"/> <xs:enumeration value="NK"/> <xs:enumeration value="NN"/> <xs:enumeration value="S0"/> <xs:enumeration value="J2"/> <xs:enumeration value="XD"/> <xs:enumeration value="VI"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="60"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CD_NM104_AffiliatedEntityFirstName" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="35"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CD_NM105_AffiliatedEntityMiddleName" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="25"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CD_NM106_AffiliatedEntityNamePrefix" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="10"/> </xs:restriction> </pre>
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	<pre></xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420300_2100CD_NM107_AffiliatedEntityNameSuffix" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="10"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>
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Table 2-4 *Affiliated Entity Name*

Code	Affiliated Entity	Annotation
J2	<p>Authorized Official</p> <p>Fields:</p> <p>Last Name</p> <p>First Name</p>	<p>Entity Type 1 providers (individuals):</p> <p>*. Authorized Official information is not collected for Entity Type 1 providers. The EFI process ignores such information.</p> <p>Entity Type 2 providers (organizations):</p> <p>*. This is a required field. If the value is not provided for this field in the attribute CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName then the provider record will fail EFI process validation. The record will be marked as rejected with error code “02” in the response file.</p> <p>*. The maximum length allowed for last names in NPPES is 35 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code “01” in the response file.</p> <p>*. This is a required field. If the value is not provided for this field in the attribute “CMS27420300_2100CD_NM104_AffiliatedEntityFirstName” then the provider record will fail EFI process validation. The record will be marked as rejected with error code “02” in the response file.</p> <p>*. The maximum length allowed for first names in NPPES is 20 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code “01” in the response file.</p>

	<p>Middle Name</p> <p>Name Prefix</p> <p>Name Suffix</p>	<p>*. This field is optional. The maximum length allowed for middle names in NPPES is 20 characters. If the value provided in the attribute CMS27420300_2100CD_NM105_AffiliatedEntityMiddleName exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. This field is optional. The values allowed by NPPES for this field are: Ms., Mr., Miss, Mrs., Dr., and Prof. If the value provided in attribute CMS27420300_2100CD_NM106_AffiliatedEntityNamePrefix does not belong in the above list, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. The maximum length allowed for name prefixes in NPPES is 5 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. This field is optional. The values allowed by NPPES for this field are: Jr., Sr., I, II, III, IV, V, VI, VII, VIII, IX, and X. If the value provided in the attribute CMS27420300_2100CD_NM107_AffiliatedEntityNameSuffix does not belong in the above list, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. The maximum length allowed for name suffixes in NPPES is 5 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p>
XI	<p>Alias (Provider Other Name Type)</p> <p>Fields:</p> <p>Last Name (Other Organization Name)</p>	<p>*. Other names are optional for both Entity Type 1 and 2 providers in NPPES. However, once an "Other Name" element is created, the following rules apply:</p> <p>Entity Type 1 providers:</p> <p>*. This is a required field. If the value is not provided for this field in the attribute CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file.</p> <p>*. The maximum length allowed for last names in NPPES is 35 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Entity Type 2 providers:</p> <p>*. This is a required field. If the value is not provided for this field in the attribute CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName then the provider record will fail EFI process validation. The record will be marked as rejected with</p>

		<p>error code "02" in the response file.</p> <p>*. The maximum length allowed for organization names in NPPES is 70 characters. The EFI XML schema limit is 60 characters. The EFI process will only store the first 60 characters of the other organization name in the response file in order to avoid validation errors against the schema.</p>
	First Name	<p>Entity Type 1 providers:</p> <p>*. This is a required field. If the value is not provided for this field in the attribute "CMS27420300_2100CD_NM104_AffiliatedEntityFirstName" then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file.</p> <p>*. The maximum length allowed for first names in NPPES is 20 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Entity Type 2 providers:</p> <p>*. The first name information is ignored by the EFI process.</p>
	Middle Name	<p>Entity Type 1 providers:</p> <p>*. This field is optional. The maximum length allowed for middle names in NPPES is 20 characters. If the value provided in the attribute CMS27420300_2100CD_NM105_AffiliatedEntityMiddleName exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Entity Type 2 providers:</p> <p>*. The middle name information is ignored by the EFI process.</p>
	Name Prefix	<p>Entity Type 1 providers:</p> <p>*. This field is optional. The values allowed by NPPES for this field are: Ms., Mr., Miss, Mrs., Dr., and Prof. If the value provided in attribute CMS27420300_2100CD_NM106_AffiliatedEntityNamePrefix does not belong in the above list, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. The maximum length allowed for name prefixes in NPPES is 5 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Entity Type 2 providers:</p>

	Name Suffix	<p>*. The name prefix information is ignored by the EFI process.</p> <p>Entity Type 1 providers:</p> <p>*. This field is optional. The values allowed by NPPES for this field are: Jr., Sr., I, II, III, IV, V, VI, VII, VIII, IX, and X. If the value provided in the attribute CMS27420300_2100CD_NM107_AffiliatedEntityNameSuffix does not belong in the above list, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. The maximum length allowed for name suffixes in NPPES is 5 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Entity Type 2 providers:</p> <p>*. The name prefix information is ignored by the EFI process.</p>
VI	<p>Contact Person</p> <p>Fields:</p> <p>Last Name</p> <p>First Name</p> <p>Middle Name</p>	<p>NPPES requires contact information for both Entity Type 1 and 2 providers.</p> <p>*. This is a required field. If the value is not provided for this field in the attribute CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file.</p> <p>*. The maximum length allowed for last names in NPPES is 35 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. This is a required field. If the value is not provided for this field in the attribute "CMS27420300_2100CD_NM104_AffiliatedEntityFirstName" then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file.</p> <p>*. The maximum length allowed for first names in NPPES is 20 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. This field is optional. The maximum length allowed for middle names in NPPES is 20 characters. If the value provided in the attribute CMS27420300_2100CD_NM105_AffiliatedEntityMiddleName exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p>

	Name Prefix	<p>*. This field is optional. The values allowed by NPPES for this field are: Ms., Mr., Miss, Mrs., Dr., and Prof. If the value provided in attribute CMS27420300_2100CD_NM106_AffiliatedEntityNamePrefix does not belong in the above list, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. The maximum length allowed for name prefixes in NPPES is 5 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p>
	Name Suffix	<p>*. This field is optional. The values allowed by NPPES for this field are: Jr., Sr., I, II, III, IV, V, VI, VII, VIII, IX, and X. If the value provided in the attribute CMS27420300_2100CD_NM107_AffiliatedEntityNameSuffix does not belong in the above list, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. The maximum length allowed for name suffixes in NPPES is 5 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p>

2.3.31 **Element:** **CMS27420500_2100CD_PER_AffiliatedEntityContactInformation**

This element is defined as optional in the EFI XML schema and it contains additional information about authorized officials, contact personnel, and/or provider other names, such as telephone numbers, extensions, faxes, and/or e-mail addresses. Whether the element describes an authorized official, contact person, or other provider name, depends on the value of the CMS27420300_2100CD_NM101_EntityIdentifierCode attribute of element CMS27420300_2100CD_NM1_AffiliatedEntityName (see section 2.3.30).

Note:

- NPPES requires contact person information for both its Entity Type 1 and 2 providers. The contact person telephone number (which is stored in this element) is required information. The EFI process will enforce this requirement when validating the provider records in an XML file. If a provider record does not have at least one instance of this element with the contact person's telephone number in it, then this provider record will fail EFI process validation and it will be marked as rejected in the response file (error code 02).
- NPPES requires authorized official information for its Entity Type 2 providers (organizations). The authorized official telephone number (which is stored in this element) is required information. The EFI process will enforce this requirement when validating the provider records in an XML file. If a provider record does not have at least one instance of this element with the authorized official's telephone number in it, then this provider record will fail EFI process validation and it will be marked as rejected in the response file (error code 02).

Diagram						
Used by	element	CMS27420300_2100CD				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420500_2100CD_PER03_CommunicationNumberQualifier	String	Required	2	Code Description : EM – Electronic Mail TE – Telephone Number	This attribute contains the code value that indicates whether the element is storing a telephone number or an e-mail address. Note: *. If the attribute contains a value outside the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. Refer to Table 2-5 (Affiliated Entity Contact Information) below for more details.
	CMS27420500_2100CD_PER04_CommunicationNumber	String	Required	256	Any valid string	This attribute contains the actual telephone number or e-mail address depending on the code chosen above. Note: *. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML

						<p>file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-5 (Affiliated Entity Contact Information) below for more details.</p>
	CMS27420500_2100CD_PER05_CommunicationNumberQualifier	String	Optional	2	<p>Code Description :</p> <p>EM – Electronic Mail</p> <p>EX – Telephone Extension</p> <p>FX – Facsimile</p> <p>TE - Telephone Number</p>	<p>This attribute contains the code value that indicates whether the element is storing a telephone number, extension, fax number, or an e-mail address.</p> <p>Note:</p> <p>*. If the attribute contains a value outside the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-5 (Affiliated Entity Contact Information) below for more details.</p>
	CMS27420500_2100CD_PER06_CommunicationNumber	String	Optional	256	Any valid string.	<p>This attribute contains the actual telephone, fax number, extension, or e-mail address depending on the code chosen above.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be</p>

						<p>notified via e-mail only.</p> <p>*. Refer to Table 2-5 (Affiliated Entity Contact Information) below for more details.</p>
	CMS27420500_2100CD_PER07_CommunicationNumberQualifier	String	Optional	2	<p>Code Description :</p> <p>EM – Electronic Mail</p> <p>EX – Telephone Extension</p> <p>FX – Facsimile</p> <p>TE - Telephone Number</p>	<p>This attribute contains the code value that indicates whether the element is storing a telephone number, extension, fax number, or an e-mail address.</p> <p>Note:</p> <p>*. If the attribute contains a value outside the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-5 (Affiliated Entity Contact Information) below for more details.</p>
	CMS27420500_2100CD_PER08_CommunicationNumber	String	Optional	256	Any valid string.	<p>This attribute contains the actual telephone, fax number, extension, or e-mail address depending on the code chosen above.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-5 (Affiliated Entity Contact Information) below for more details.</p>

Annotation	documentation	Affiliated Entity Contact Information	
Source			<pre> <xs:element name="CMS27420500_2100CD_PER_AffiliatedEntityContactInformation"> <xs:annotation> <xs:documentation>Affiliated Entity Contact Information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420500_2100CD_PER03_CommunicationNumberQualifier" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="EM"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CD_PER04_CommunicationNumber" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CD_PER05_CommunicationNumberQualifier" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="EM"/> <xs:enumeration value="EX"/> <xs:enumeration value="FX"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CD_PER06_CommunicationNumber" use="optional"> <xs:simpleType> </pre>

	<pre> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CD_PER07_CommunicationNumberQualifier" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="EM"/> <xs:enumeration value="EX"/> <xs:enumeration value="FX"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100CD_PER08_CommunicationNumber" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
--	--

Table 2-5 Affiliated Entity Contact Information

Code	Affiliated Entity	Annotation
J2	<p>Authorized Official</p> <p>Fields:</p> <p>Electronic Mail</p>	<p>Entity Type 1 providers (individuals):</p> <p>*. Authorized Official information is not collected for Entity Type 1 providers. The EFI process ignores such information.</p>

	<p>Telephone Number</p> <p>Telephone Extension</p> <p>Fax</p>	<p>Entity Type 2 providers (organizations):</p> <p>*. NPPES does not collect e-mail addresses for authorized officials. The EFI process ignores such information.</p> <p>*. This is a required field. If the value is not provided for this field in the attribute CMS27420500_2100CD_PER04_CommunicationNumber, then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file.</p> <p>*. NPPES requires that authorized official telephone numbers be between 10 and 20 alpha-numeric characters long. If the attribute contains a value that is not between 10 and 20 alpha-numeric characters long then the provider record will fail EFI process validation. The provider record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 authorized official telephone number. The EFI process will ignore any additional telephone numbers provided.</p> <p>*. This is an optional field. The maximum length allowed in NPPES for telephone extensions is 5 characters. If the value is provided for this field in the attribute CMS27420500_2100CD_PER06_CommunicationNumber (or CMS27420500_2100CD_PER08_CommunicationNumber) exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 authorized official telephone extension. The EFI process will ignore any additional telephone extensions provided.</p> <p>*. NPPES does not collect fax information for authorized officials. The EFI process ignores such information.</p>
XI	<p>Alias (Provider Other Name Type)</p> <p>Fields:</p> <p>Electronic Mail</p> <p>Telephone Number</p> <p>Telephone Extension</p> <p>Fax</p>	<p>NPPES does not collect this information for other provider names. The EFI process ignores such information.</p>
VI	Contact Person	NPPES requires contact information for both Entity Type 1 and 2 providers.

	Fields:	
	Electronic Mail	<p>*. This is an optional field. The maximum length allowed in NPPES for e-mail addresses is 100 characters. If the value is provided for this field in the attribute CMS27420500_2100CD_PER04_CommunicationNumber (or CMS27420500_2100CD_PER06_CommunicationNumber or CMS27420500_2100CD_PER08_CommunicationNumber) exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 contact person e-mail address. The EFI process will ignore any additional e-mail addresses provided.</p>
	Telephone Number	<p>*. This is a required field. If the value is not provided for this field in the attribute CMS27420500_2100CD_PER04_CommunicationNumber, then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file.</p> <p>*. NPPES requires that contact person telephone numbers be between 10 and 20 alpha-numeric characters long. If the attribute contains a value that is not between 10 and 20 alpha-numeric characters long then the provider record will fail EFI process validation. The provider record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 contact person telephone number. The EFI process will ignore any additional telephone numbers provided.</p>
	Telephone Extension	<p>*. This is an optional field. The maximum length allowed in NPPES for telephone extensions is 5 characters. If the value is provided for this field in the attribute CMS27420500_2100CD_PER06_CommunicationNumber (or CMS27420500_2100CD_PER08_CommunicationNumber) exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 contact person telephone extension. The EFI process will ignore any additional telephone extensions provided.</p>
	Fax	<p>*. NPPES does not collect fax information for contact personnel. The EFI process ignores such information.</p>

2.3.32 Element: CMS27420600_2100CD_DEG_AffiliatedEntitySCredentials

This element is defined as optional in the EFI XML schema and it contains credential information about authorized officials, contact personnel, and/or provider other names. Whether the element describes an authorized official, contact person, or other provider name, depends on the value of the

CMS27420300_2100CD_NM101_EntityIdentifierCode attribute of element
 CMS27420300_2100CD_NM1_AffiliatedEntityName (see section 2.3.30).

Diagram	<div><div>CMS27420600_2100CD_DEG_Affili... Affiliated Entity's Credentials</div><div><div>attributes</div><div>CMS27420600_2100CD_DEG04_De...</div></div></div>					
Used by	element	CMS27420300_2100CD				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420600_2100CD_DEG04_Description	String	Required	80	Any string.	<p>This attributes contains credential(s) information for authorized officials, contact personnel, or a provider other name.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (80 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>Refer to Table 2-6 (Affiliated Entity Credential(s) Information) below for more details.</p>
Annotation	documentation	Affiliated Entity's Credentials				
Source	<pre><xs:element name="CMS27420600_2100CD_DEG_AffiliatedEntitySCredentials"> <xs:annotation> <xs:documentation>Affiliated Entity's Credentials</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420600_2100CD_DEG04_Description" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="80"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>					

Table 2-6 Affiliated Entity Credential(s) Information

Code	Affiliation Entity	Annotation
J2	Authorized Official Field(s): Credential(s)	Entity Type 1 providers (individuals): *. Authorized Official information is not collected for Entity Type 1 providers. The EFI process ignores such information. Entity Type 2 providers (organizations): *. This is an optional field. The maximum length allowed for any credentials in NPPES is 20 characters. If the value provided in the attribute CMS27420600_2100CD_DEG04_Description exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file. *. NPPES stores only 1 authorized official credential(s) set. The EFI process will ignore any additional credential(s) sets provided.
XI	Alias (Provider Other Name Type) Field(s): Credential(s)	Entity Type 1 providers: *. This is an optional field. The maximum length allowed for any credentials in NPPES is 20 characters. If the value provided in the attribute CMS27420600_2100CD_DEG04_Description exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file. *. NPPES stores only 1 other provider name credential(s) set. The EFI process will ignore any additional credential(s) sets provided. Entity Type 2 providers: *. Credentials information is not collected for Entity Type 2 providers. The EFI process ignores such information.
VI	Contact Person Field(s): Credential(s)	*. This is an optional field. The maximum length allowed for any credentials in NPPES

		<p>is 20 characters. If the value provided in the attribute CMS27420600_2100CD_DEG04_Description exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 contact person credential(s) set. The EFI process will ignore any additional credential(s) sets provided.</p>
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2.3.33 Element: CMS27421300_2100CD_MTX_AffiliatedEntitySTitle

This element is defined as optional in the EFI XML schema and it contains title information for authorized officials and contact personnel. Whether the element describes an authorized official or contact person depends on the value of the CMS27420300_2100CD_NM101_EntityIdentifierCode attribute of element CMS27420300_2100CD_NM1_AffiliatedEntityName (see section 2.3.30).

Note: NPPES requires authorized official information for its Entity Type 2 providers (organizations). The authorized official title/position (which is stored in this element) is required information. The EFI process will enforce this requirement when validating the provider records in an XML file. If a provider record does not have at least one instance of this element, then this provider record will fail EFI process validation and it will be marked as rejected in the response file (error code 02).

Diagram	<div><div><div>CMS27421300_2100CD_MTX_Affil...</div><div>Affiliated Entity's Title</div></div><div><div>attributes</div><div><div>CMS27421300_2100CD_MTX02_T...</div></div></div></div>					
Used by	element	CMS27420300_2100CD				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27421300_2100CD_MTX02_TextualData	String	Required	4096	Any string	<p>This attribute contains title information.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (4096 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Refer to Table 2-7 (Affiliated Entity Title Information) below for more details.</p>
Annotation	documentation	Affiliated Entity's Title				
Source	<xs:element name="CMS27421300_2100CD_MTX_AffiliatedEntitySTitle">					

	<pre> <xs:annotation> <xs:documentation>Affiliated Entity's Title</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27421300_2100CD_MTX02_TextualData" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="4096"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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Table 2-7 Affiliated Entity Title Information

Code	Affiliated Entity	Annotation
J2	Authorized Official Field(s): Title	Entity Type 1 providers (individuals): *. Authorized Official information is not collected for Entity Type 1 providers. The EFI process ignores such information. Entity Type 2 providers (organizations): *. This is a required field. If the value is not provided for this field in the attribute CMS27421300_2100CD_MTX02_TextualData then the provider record will fail EFI process validation. The record will be marked as rejected with error code "02" in the response file. *. The maximum length allowed for title information in NPPES is 35 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file. *. NPPES stores only 1 authorized official title. The EFI process will ignore any additional titles provided.
XI	Alias (Provider Other Name Type) Field(s): Title	NPPES does not collect this information for other provider names. The EFI process

		ignores such information.
VI	Contact Person Fields: Title	<p>*. This is an optional field. The maximum length allowed for title information in NPPES is 35 characters. If the value exceeds the NPPES maximum length, the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 contact person title. The EFI process will ignore any additional titles provided.</p>

2.3.34 Element: CMS27420100_2000D

This element acts as a container for provider practice location information. It is defined as required in the EFI XML schema and occurs only once within provider records in an XML file.

Note: The absence of this element in a provider record will cause the XML file to fail schema validation. No response file is created. The entire XML file will be rejected. The EFI participant that submitted the file will be notified by e-mail only.

Diagram	<pre> graph LR A[CMS27420100_2000D Site Hierarchical Level] --- B[...] --- C[CMS27420300_2100DA Site/Location Name] </pre>		
Children	CMS27420300_2100DA		
Used by	element	CMS274 HealthCareProviderInformationProviderSiteGroup	
Annotation	documentation	Site Hierarchical Level	
Source	<pre> <xs:element name="CMS27420100_2000D"> <xs:annotation> <xs:documentation>Site Hierarchical Level</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420300_2100DA"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.35 Element: CMS27420300_2100DA

This element acts as a container for provider practice location contact information, which includes practice location telephone numbers and extensions, and fax numbers. It is defined as required in the EFI XML schema and occurs only once within provider records in an XML file.

Note: The absence of this element in a provider record will cause the XML file to fail schema validation. No response file is created. The entire XML file will be rejected. The EFI participant that submitted the file will be notified by e-mail only.

Diagram			
Children	CMS27420500_2100DA_PER_SiteLocationContactInformation CMS27422100_2110DA		
Used by	element	CMS27420100_2000D	
Annotation	documentation	Site/Location Name	
Source	<pre> <xs:element name="CMS27420300_2100DA"> <xs:annotation> <xs:documentation>Site/Location Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420500_2100DA_PER_SiteLocationContactInformation" minOccurs="0"/> <xs:element ref="CMS27422100_2110DA"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.36 Element: CMS27420500_2100DA_PER_SiteLocationContactInformation

This element is defined as optional in the EFI XML schema and it contains information, such as practice location telephone numbers, extensions, fax numbers, etc. This element can occur more than once inside provider records in an XML file.

Note: NPPES requires practice location telephone numbers for all its providers. The EFI process will enforce this requirement when validating the provider records in an XML file. If a provider record does not have at least one instance of this element, then this provider record will fail EFI process validation and it will be marked as rejected in the response file (error code 02).

Diagram						
Used by	element	CMS27420300_2100DA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27420500_2100DA_PER03_CommunicationNumberQualifier	String	Required	2	Code Description: TE - Telephone Number	This attribute contains the code value indicating the type of contact information stored in the element. Note: If the attribute contains a value outside the "Allowed Values" list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.
	CMS27420500_2100DA_PER04_CommunicationNumber	String	Required	256	Any valid string	This attribute contains the actual data/value for the type of contact information described above. In this case, it would be

	nNumber					<p>the practice location telephone number.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. NPPES requires that telephone numbers of domestic practice locations be 10 digit numeric values, If the attribute contains a domestic telephone number that is not 10 digits and is not numeric then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>Example:</p> <p>- Accepted Telephone Number(s): 7032672269</p> <p>- Unacceptable domestic Telephone Number(s): 703-267-2269 or 703/267/2269 or 703267229, etc.</p> <p>*. NPPES requires that telephone numbers of foreign practice locations not exceed 20 characters. If the attribute contains a foreign telephone number that exceeds the maximum NPPES limit, then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response</p>	
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						<p>file.</p> <p>*. NPPES stores only 1 practice location telephone number. The EFI process ignores any additional telephone numbers that may be provided.</p>	
	CMS27420500_2100DA_PER05_CommunicationNumberQualifier		Optional	2	<p>Code Description:</p> <p>EM – Electronic Mail</p> <p>EX – Telephone Extension</p> <p>FX – Facsimile</p> <p>TE - Telephone Number</p>	<p>This attribute contains the code value indicating the type of contact information stored in the element.</p> <p>Note: If the attribute contains a value outside the “Allowed Values” list then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p>	
	CMS27420500_2100DA_PER06_CommunicationNumber		Optional	256	Any valid string	<p>This attribute contains the actual data/value for the type of contact information described above. In this case, it would be the practice location telephone number.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (256 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>* For telephone number formatting requirements, see the attribute CMS27420500_2100DA_PER04_CommunicationNumber annotation comments.</p>	

						<p>*. NPPES does not require a telephone extension for a practice location. However, if the telephone extension is provided, it cannot be more than 5 characters long. If the attribute contains a value that exceeds the NPPES maximum length, then the provider record will fail EFI process validation. The record will be marked as rejected with error code "01" in the response file.</p> <p>*. NPPES stores only 1 practice location telephone extension. The EFI process ignores any additional telephone extensions that may be provided.</p> <p>Example:</p> <p>- Accepted Telephone Extension Number(s): 123, 12345, etc.</p> <p>- Unacceptable Telephone Extension Number(s): 123456, 123AC, ABC, etc.</p> <p>*. NPPES does not collect practice location e-mail addresses. The EFI process ignores such information</p> <p>*. NPPES does not require practice location fax numbers. If the fax number is provided however, it must obey the same formatting rules that apply to the practice location phone number.</p> <p>*. NPPES stores only 1 practice location fax number. The EFI process ignores any additional fax numbers that may be provided.</p>	
	CMS27420500_		Optional	2	Code- Description	See annotation comments for	

	2100DA_PER07 _Communicatio nNumberQualifi er				EM – Electronic Mail EX – Telephone Extension FX – Facsimile TE - Telephone Number	attribute CMS27420500_2100DA_PER0 5_CommunicationNumberQuali fier.
	CMS27420500_ 2100DA_PER08 _Communicatio nNumber		Optional	256	Any valid string	See annotation comments for attribute CMS27420500_2100DA_PER0 6_CommunicationNumber.
Annotation	documentation	Site/Location Contact Information				
Source	<pre><xs:element name="CMS27420500_2100DA_PER_SiteLocationContactInformation"> <xs:annotation> <xs:documentation>Site/Location Contact Information</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27420500_2100DA_PER03_CommunicationNumberQualifier" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> <xs:enumeration value="TE"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100DA_PER04_CommunicationNumber" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="256"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27420500_2100DA_PER05_CommunicationNumberQualifier" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"></pre>					

```

<xs:maxLength value="2"/>
<xs:enumeration value="EM"/>
<xs:enumeration value="EX"/>
<xs:enumeration value="FX"/>
<xs:enumeration value="TE"/>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="CMS27420500_2100DA_PER06_CommunicationNumber" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="256"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="CMS27420500_2100DA_PER07_CommunicationNumberQualifier" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="2"/>
      <xs:enumeration value="EM"/>
      <xs:enumeration value="EX"/>
      <xs:enumeration value="FX"/>
      <xs:enumeration value="TE"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="CMS27420500_2100DA_PER08_CommunicationNumber" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="256"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>
</xs:element>

```

2.3.37 Element: CMS27422100_2110DA

This element acts as a container for additional provider practice location address details, such as practice location address lines 1 and 2, city, state, country, zip code, etc. The element is defined as required by the EFI XML schema and occurs only once inside provider records in an XML file.

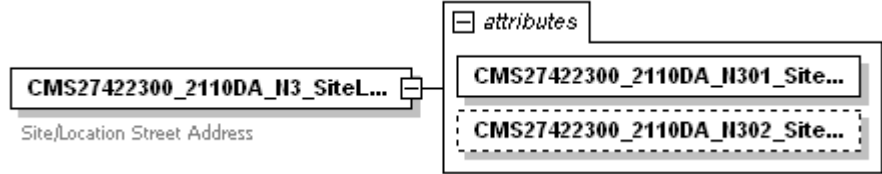
Note: The absence of this element in a provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram			
Children	<p>CMS27422300 2110DA N3 SiteLocationStreetAddress : This element provider practice location street address information</p> <p>CMS27422400 2110DA N4 SiteLocationGeographicLocation: This element contains provider practice location geographic details.</p>		
Used by	Element	CMS27420300 2100DA	
Annotation	documentation	Site/Location Address Type	
Source	<pre> <xs:element name="CMS27422100_2110DA"> <xs:annotation> <xs:documentation>Site/Location Address Type</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27422300_2110DA_N3_SiteLocationStreetAddress"/> <xs:element ref="CMS27422400_2110DA_N4_SiteLocationGeographicLocation"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.38 Element: CMS27422300_2110DA_N3_SiteLocationStreetAddress

This element is defined as required by the EFI XML schema and it has 2 attributes containing practice location street address line 1 and 2 information. The element occurs only once within provider records in an XML file.

Note: The absence of this element in a provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram						
Used by	element	CMS27422100_2110DA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27422300_2110DA_N301_SiteOrLocationAddressLine	String	Required	55	Any valid string.	<p>This attribute contains Provider Practice Location Street Address line 1 information.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (55 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This is a required field in NPPES. Therefore, this attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the provider record as rejected with error code "02" in the response file.
	CMS27422300_2110DA_N302_SiteOrLocationAddressLine	String	Optional	55	Any valid string.	<p>This attribute contains Provider Practice Location Street Address line 2 information.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (55 characters) then the entire XML file will fail

						schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.	
Annotation	documentation	Site/Location Street Address					
Source	<pre><xs:element name="CMS27422300_2110DA_N3_SiteLocationStreetAddress"> <xs:annotation> <xs:documentation>Site/Location Street Address</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422300_2110DA_N301_SiteOrLocationAddressLine" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="55"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422300_2110DA_N302_SiteOrLocationAddressLine" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="55"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element></pre>						

2.3.39 Element: CMS27422400_2110DA_N4_SiteLocationGeographicLocation

This element is defined as required by the EFI XML schema and it has 4 attributes containing practice location geographic details, such as city name, state, postal or zip code, and country. The element occurs only once within provider records in an XML file.

Note: The absence of this element in a provider record will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram	<p>The diagram illustrates the element CMS27422400_2110DA_N4_SiteL... (labeled as Site/Location Geographic Location) and its four attributes: CMS27422400_2110DA_H401_Site..., CMS27422400_2110DA_H402_Site..., CMS27422400_2110DA_H403_Site..., and CMS27422400_2110DA_H404_Site....</p>					
Used by	element	CMS27422100_2110DA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27422400_2110DA_N401_SiteOrLocationCityName	String	Required	30	Any valid string.	<p>This attribute contains the provider practice location city name.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (30 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This is a required field in NPPES. Therefore, this attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the provider record as rejected with error code "02" in the response file. *. NPPES allows the city names to be up to 40 characters long. The EFI XML schema sets the limit at 30 characters. The EFI process uses the first 30 characters of the

						city name to populate the response files in order to avoid schema validation errors.	
	CMS27422400_2110DA_N402_SiteOrLocationStateCode	String	Required	2	Any valid string.	<p>This attribute contains the provider practice location state code.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (2 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This is a required field in NPPES. Therefore, this attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the provider record as rejected with error code "02" in the response file. *. NPPES allows the state information to be up to 40 characters long (for foreign addresses). The EFI process populates only the first 2 characters of the state information into the response files in order to avoid EFI XML schema validation errors. *. If the address is domestic, the attribute can only contain values from the U.S. state codes standard list. Otherwise, the EFI process will mark the provider record as rejected with error code "01" in the response file. 	
	CMS27422400_2110DA_N403_SiteOrLocationPostalZoneOrZipCode	String	Required	15	Any valid string.	<p>This attribute contains the provider practice location address postal or zip code.</p> <p>Note:</p> <ul style="list-style-type: none"> *. If the attribute contains a value with length exceeding the maximum allowed (15 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only. *. This attribute must be populated with a non-blank value (all spaces). In addition, zip 	

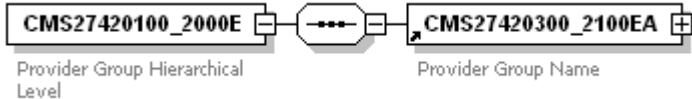
						<p>codes must be either 5 or 9 digits long (numeric). Otherwise the EFI process will mark the provider record as rejected with error code "02" in the response file.</p> <p>*. NPPES allows zip codes to be up to 9 characters long (5 or 9) and foreign postal codes up to 20 characters long. When working with foreign addresses, the EFI process will only store the first 15 characters of the postal code in the response files to avoid EFI XML schema validation errors.</p>
	CMS27422400_2110DA_N404_SiteOrLocationCountryCode	String	Optional	3	Any valid string.	<p>This attribute contains the provider mailing address country code.</p> <p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (3 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. The EFI process uses this field to determine whether it is working with a domestic or foreign address. If the country code is U.S then the EFI process treats the practice location address as domestic and applies the appropriate validations.</p> <p>*. Practice Location country code must be from the ISO standard list. Otherwise the EFI process will mark the provider record as rejected with error code "01" in the response file.</p> <p>*. Practice Location country code is a required field in NPPES. Therefore, this attribute must be populated with a non-blank value (all spaces). Otherwise the EFI process will mark the provider record as rejected with error code "02" in the response file.</p>
Annotation	documentation	Site/Locaton Geographic Location				
Source	<xs:element name="CMS27422400_2110DA_N4_SiteLocationGeographicLocation">					

	<pre> <xs:annotation> <xs:documentation>Site/Locaton Geographic Location</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422400_2110DA_N401_SiteOrLocationCityName" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="30"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422400_2110DA_N402_SiteOrLocationStateCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422400_2110DA_N403_SiteOrLocationPostalZoneOrZipCode" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="15"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422400_2110DA_N404_SiteOrLocationCountryCode" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
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2.3.40 Element: CMS27420100_2000E

This element acts as a container for any group related information that might apply to a provider record. The element is defined as optional by the EFI XML schema and occurs at most once within provider records in an XML file.

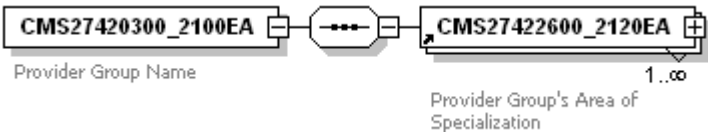
Note: Only Entity Type 2 providers can be groups. The EFI process will ignore any group information supplied as part of an Entity Type 1 (individual) record.

Diagram			
Children	CMS27420300_2100EA		
Used by	element	CMS274_HealthCareProviderInformationProviderSiteGroup	
Annotation	documentation	Provider Group Hierarchical Level	
Source	<pre> <xs:element name="CMS27420100_2000E"> <xs:annotation> <xs:documentation>Provider Group Hierarchical Level</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27420300_2100EA"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.41 Element: CMS27420300_2100EA

This element acts as a container for any group name and group taxonomy related information that might apply to a provider record. The element is defined as required by the EFI XML schema and can occur only once within provider records in an XML file depending on the existence of its parent element CMS27420100_2000E.

Note: The absence of this element in a provider record when the parent element CMS27420100_2000E is provided will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.

Diagram			
Children	CMS27422600_2120EA		
Used by	element	CMS27420100_2000E	

Annotation	documentation	Provider Group Name	
Source	<pre> <xs:element name="CMS27420300_2100EA"> <xs:annotation> <xs:documentation>Provider Group Name</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="CMS27422600_2120EA" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </xs:element> </pre>		

2.3.42 Element: CMS27422600_2120EA

This element acts as a container for any group taxonomy related information that might apply to a provider record. The element is defined as required by the EFI XML schema and can occur more than once within provider records in an XML file.

Note:

- The absence of this element in a provider record when the parent element CMS27420300_2100EA is provided will cause the XML file to fail schema validation. The entire file will be rejected by the EFI process and no response file will be generated. The EFI participant that submitted the file will be notified via e-mail only.
- Even though the schema does not specify an upper limit on the number of times this element can occur within a provider record, NPPES does require that no provider records have more than 15 unique taxonomies. This requirement is enforced by the EFI process, which ignores all additional taxonomies beyond the first 15.

Diagram	<p>The diagram shows a box labeled 'CMS27422600_2120EA' with a dashed line and arrow pointing to a box labeled 'CMS27422600_2120EA_LQ_Provi...'. Both boxes are labeled 'Provider Group's Area of Specialization'.</p>		
Children	CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization		
Used by	element	CMS27420300_2100EA	
Annotation	documentation	Provider Group's Area of Specialization	
Source	<pre> <xs:element name="CMS27422600_2120EA"> <xs:annotation> <xs:documentation>Provider Group's Area of Specialization</xs:documentation> </xs:annotation> <xs:complexType> </pre>		

	<pre> <xs:sequence> <xs:element ref="CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization" minOccurs="0"/> </xs:sequence> </xs:complexType> </xs:element> </pre>
--	--

2.3.43 Element: CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization

This element is defined as optional by the EFI XML schema and it has 2 attributes containing group taxonomy information. This element can occur more than once within provider records in an XML file.

Note:

- The contents (attribute values) of this element must be the same as those of element CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization (see Section 2.3.24). The EFI process will ignore the contents of this element otherwise.
- If there are multiple occurrences of this element then each instance will be compared side-by-side against each instance of the CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization element (first instance of this element against the first instance of the provider taxonomies element, second instance of this element against the second instance of the provider taxonomies element, and so on). If the instances match, the EFI process will accept the contents of this element instance and mark this instance as group taxonomy otherwise it will ignore that information.

Diagram	<p>The diagram shows a box labeled 'CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization' with a line connecting it to a larger box containing two attributes: 'CMS27422600_2120EA_LQ01_CodeListQualifierCode' and 'CMS27422600_2120EA_LQ02_ProviderGroupSAreaOfSpecialization'.</p>					
Used by	element	CMS27422600_2120EA				
Attributes	Name	Type	Use	Maximum Length	Allowed Values	Annotation
	CMS27422600_2120EA_LQ01_CodeListQualifierCode	Integer	Required	3	Any valid integer.	This attribute contains the provider group area of specialization code. This is usually the first 2 digits of the provider's taxonomy number. Note: *. This attribute is not used by the EFI process.
	CMS27422600_2120EA_LQ02_ProviderGroupSAreaOfSpecialization	String	Required	30	Any valid string.	This attribute contains the provider group taxonomy number.

	pecialtyCode					<p>Note:</p> <p>*. If the attribute contains a value with length exceeding the maximum allowed (30 characters) then the entire XML file will fail schema validation and it will be rejected as a result. No response file will be generated by the EFI process. The EFI participant will be notified via e-mail only.</p> <p>*. Taxonomy codes are 10 characters long. If the attribute contains code values that are not 10 characters long, the record will fail EFI process validation. This record will be marked as rejected with error code "01" in the response file.</p> <p>*. If the attribute contains a taxonomy that does not exist in NPPES, the record will fail EFI process validation. The record will be marked as rejected with an error code "05" in the response file.</p> <p>*. If the attribute contains a taxonomy that does not belong to the type of provider in the record (e.g. an individual is assigned the taxonomy of a hospital), it will fail EFI process validation. The record will be marked as rejected with an error code "06" in the response file.</p>
Annotation	documentation	Provider Group's Area of Specialization				
Source	<pre><xs:element name="CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization"> <xs:annotation> <xs:documentation>Provider Group's Area of Specialization</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="CMS27422600_2120EA_LQ01_CodeListQualifierCode" use="required"> <xs:simpleType> <xs:restriction base="xs:int"> <xs:totalDigits value="3"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="CMS27422600_2120EA_LQ02_ProviderGroupSpecialtyCode" use="required"></pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="30"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>
--	--

2.4 Sample XML File for New Request

Please see attached file: [Sample_EFIfileNewApps_xml.pdf](#)

2.5 Sample XML File for Modify Request:

Please see attached file: [Sample_EFIfileChangeRequest_xml.pdf](#)

3 EFI Special Considerations

3.1 Field Lengths

This section describes two specific situations that arise from discrepancies between the sizes of data elements allowed in NPPES versus the EFI XML schema:

- **Scenario 1** – A change request was previously performed and accepted through the Internet or the Enumerator on an existing active EFI record. The field(s) modified however, contained more characters than the EFI XML schema allows. A second change request is performed through EFI on other fields and an EFI response file is being generated with the latest EFI record in NPPES. The fields affected by the first change requests are larger than the EFI schema allows.

With regard to certain provider information data items, such as address City Name and State Information, the number of characters allowed by NPPES differs from the number of characters allowed in the EFI XML schema. Any XML files that do not adhere to the schema rules will of course fail EFI XML schema validation and get rejected by the EFI process. However, an enumerated record submitted via EFI can still receive a change request via conventional NPPES methods like paper or web that may make that record fail EFI XML schema validation at the time of response file creation. In order to avoid this scenario, the EFI process populates the attribute with only the number of characters allowed by the XML schema. For example, in the case of `<CMS27422400_2110CA_N401_ProviderCityName>` which is the attribute that containing the city name, NPPES allows 40 characters while the EFI XML schema only allows 30 characters. If an Enumerator user edits an active EFI record, such that the city name now contains more than 30 characters, it will cause a schema validation error when a response file generates. Hence, the EFI process populates only the first 30 characters of this attribute when generating the response files in order to avoid EFI XML schema validation errors.

- **Scenario 2** – EFI XML request files (uploaded by EOR-s) contain records with data items that conform to the EFI XML schema, but have more characters than NPPES allows.

EFI records in an XML file, that contain data items where the field length exceeds the maximum length allowed by NPPES, will be rejected by the EFI process. When the response file is created, the EFI process will mark such records with an error code “01”. Furthermore, during the creation of the response file, the data contained in the fields that caused the rejection of the record, will be trimmed by the EFI process to the length allowed by NPPES.

3.2 Special Characters in XML Files

Certain characters like & (ampersand) are treated as special characters by the XML parser and must be escaped in the XML input file if required to use them. The NPPES-EFI XML parser accepts all the well-known XML escape sequences. Following is a list of acceptable special characters and their corresponding escape sequences.

Special Character	Escape Sequence
quote (")	"

apostrophe (')	'
ampersand (&)	&
less than (<)	<
greater than (>)	>
\ (slash), space, #(hash), . (dot), ? (question), ; (semi-colon), :(colon), !(exclamation), ~(tilde), = (equals), *(star),%(percentile), \$(dollar), @(at) , ^(carrot), -(hyphen), _ (underscore), ((left bracket),) (right bracket) , / (forward slash), + (plus), ` (redirect)	No escape required

Thus, if the value of the organization name attribute is Johnson & Johnson Inc., then it should be escaped as Johnson & Johnson Inc. in the input XML file.

3.3 XML File Naming Rules

XML file names may contain any valid characters; however, they should not contain any special characters or spaces. The allowed set of characters that can be used in constructing an XML File name should be contained in the subset defined as follows: [A-Z][a-z][0-9]. In addition to these, hyphen (-) and underscore (_) may also be used as valid characters in defining an XML file name. These rules should also be followed while constructing the zip file from input XML file(s) as well.

3.4 XML File Compression

NPPES EFI supports Zip files created by the latest versions of WinZip and PKZip, such as WinZip 9.0 and PKZip 8.0. Other Zip utilities that conform to the PKZip format may work, but the support of them is not guaranteed. Outdated versions of Zip utilities are likely to be incompatible with NPPES EFI.

4 Appendix

4.1 State Reference

STATE/U.S. FOREIGN TERRITORY CODE	STATE/U.S. FOREIGN TERRITORY NAME
AK	ALASKA
AL	ALABAMA
AR	ARKANSAS
AS	AMERICAN SAMOA
AZ	ARIZONA
CA	CALIFORNIA
CO	COLORADO
CT	CONNECTICUT
DC	DISTRICT OF COLUMBIA
DE	DELAWARE
FL	FLORIDA
FM	MICRONESIA, FEDERATED STATES OF
GA	GEORGIA
GU	GUAM
HI	HAWAII
IA	IOWA
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
MA	MASSACHUSETTS

STATE/U.S. FOREIGN TERRITORY CODE	STATE/U.S. FOREIGN TERRITORY NAME
MD	MARYLAND
ME	MAINE
MH	MARSHALL ISLANDS
MI	MICHIGAN
MN	MINNESOTA
MO	MISSOURI
MP	MARIANA ISLANDS, NORTHERN
MS	MISSISSIPPI
MT	MONTANA
NC	NORTH CAROLINA
ND	NORTH DAKOTA
NE	NEBRASKA
NH	NEW HAMPSHIRE
NJ	NEW JERSEY
NM	NEW MEXICO
NV	NEVADA
NY	NEW YORK
OH	OHIO
OK	OKLAHOMA
OR	OREGON
PA	PENNSYLVANIA
PR	PUERTO RICO
PW	PALAU
RI	RHODE ISLAND
SC	SOUTH CAROLINA
SD	SOUTH DAKOTA
TN	TENNESSEE

STATE/U.S. FOREIGN TERRITORY CODE	STATE/U.S. FOREIGN TERRITORY NAME
TX	TEXAS
UT	UTAH
VA	VIRGINIA
VI	VIRGIN ISLANDS
VT	VERMONT
WA	WASHINGTON
WI	WISCONSIN
WV	WEST VIRGINIA
WY	WYOMING

4.2 Country Reference

Note: NPPES considers U.S. Foreign Territories to be domestic addresses. For this reason, the U.S. Foreign Territory codes are included in section 4.1 rather than in the table below:

COUNTRY CODE	COUNTRY NAME
AD	ANDORRA
AE	UNITED ARAB EMIRATES
AF	AFGHANISTAN
AG	ANTIGUA AND BARBUDA
AI	ANGUILLA
AL	ALBANIA
AM	ARMENIA
AN	NETHERLANDS ANTILLES
AO	ANGOLA
AQ	ANTARCTICA
AR	ARGENTINA
AT	AUSTRIA
AU	AUSTRALIA

COUNTRY CODE	COUNTRY NAME
AW	ARUBA
AX	ÅLAND ISLANDS
AZ	AZERBAIJAN
BA	BOSNIA AND HERZEGOVINA
BB	BARBADOS
BD	BANGLADESH
BE	BELGIUM
BF	BURKINA FASO
BG	BULGARIA
BH	BAHRAIN
BI	BURUNDI
BJ	BENIN
BM	BERMUDA
BN	BRUNEI DARUSSALAM
BO	BOLIVIA
BR	BRAZIL
BS	BAHAMAS
BT	BHUTAN
BV	BOUVET ISLAND
BW	BOTSWANA
BY	BELARUS
BZ	BELIZE
CA	CANADA
CC	COCOS (KEELING) ISLANDS
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CF	CENTRAL AFRICAN REPUBLIC
CG	CONGO

COUNTRY CODE	COUNTRY NAME
CH	SWITZERLAND
CI	CÔTE D'IVOIRE
CK	COOK ISLANDS
CL	CHILE
CM	CAMEROON
CN	CHINA
CO	COLOMBIA
CR	COSTA RICA
CS	SERBIA AND MONTENEGRO
CU	CUBA
CV	CAPE VERDE
CX	CHRISTMAS ISLAND
CY	CYPRUS
CZ	CZECH REPUBLIC
DE	GERMANY
DJ	DJIBOUTI
DK	DENMARK
DM	DOMINICA
DO	DOMINICAN REPUBLIC
DZ	ALGERIA
EC	ECUADOR
EE	ESTONIA
EG	EGYPT
EH	WESTERN SAHARA
ER	ERITREA
ES	SPAIN
ET	ETHIOPIA

COUNTRY CODE	COUNTRY NAME
FI	FINLAND
FJ	FIJI
FK	FALKLAND ISLANDS (MALVINAS)
FO	FAROE ISLANDS
FR	FRANCE
GA	GABON
GB	UNITED KINGDOM
GD	GRENADA
GE	GEORGIA
GF	FRENCH GUIANA
GG	GUERNSEY
GH	GHANA
GI	GIBRALTAR
GL	GREENLAND
GM	GAMBIA
GN	GUINEA
GP	GUADELOUPE
GQ	EQUATORIAL GUINEA
GR	GREECE
GS	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
GT	GUATEMALA
GW	GUINEA-BISSAU
GY	GUYANA
HK	HONG KONG
HM	HEARD ISLAND AND MCDONALD ISLANDS
HN	HONDURAS
HR	CROATIA

COUNTRY CODE	COUNTRY NAME
HT	HAITI
HU	HUNGARY
ID	INDONESIA
IE	IRELAND
IL	ISRAEL
IM	ISLE OF MAN
IN	INDIA
IO	BRITISH INDIAN OCEAN TERRITORY
IQ	IRAQ
IR	IRAN, ISLAMIC REPUBLIC OF
IS	ICELAND
IT	ITALY
JE	JERSEY
JM	JAMAICA
JO	JORDAN
JP	JAPAN
KE	KENYA
KG	KYRGYZSTAN
KH	CAMBODIA
KI	KIRIBATI
KM	COMOROS
KN	SAINT KITTS AND NEVIS
KP	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
KR	KOREA, REPUBLIC OF
KW	KUWAIT
KY	CAYMAN ISLANDS
KZ	KAZAKHSTAN

COUNTRY CODE	COUNTRY NAME
LA	LAO PEOPLE'S DEMOCRATIC REPUBLIC
LB	LEBANON
LC	SAINT LUCIA
LI	LIECHTENSTEIN
LK	SRI LANKA
LR	LIBERIA
LS	LESOTHO
LT	LITHUANIA
LU	LUXEMBOURG
LV	LATVIA
LY	LIBYAN ARAB JAMAHIRIYA
MA	MOROCCO
MC	MONACO
MD	MOLDOVA, REPUBLIC OF
MG	MADAGASCAR
MK	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
ML	MALI
MM	MYANMAR
MN	MONGOLIA
MO	MACAO
MQ	MARTINIQUE
MR	MAURITANIA
MS	MONTserrat
MT	MALTA
MU	MAURITIUS
MV	MALDIVES
MW	MALAWI

COUNTRY CODE	COUNTRY NAME
MX	MEXICO
MY	MALAYSIA
MZ	MOZAMBIQUE
NA	NAMIBIA
NC	NEW CALEDONIA
NE	NIGER
NF	NORFOLK ISLAND
NG	NIGERIA
NI	NICARAGUA
NL	NETHERLANDS
NO	NORWAY
NP	NEPAL
NR	NAURU
NU	NIUE
NZ	NEW ZEALAND
OM	OMAN
PA	PANAMA
PE	PERU
PF	FRENCH POLYNESIA
PG	PAPUA NEW GUINEA
PH	PHILIPPINES
PK	PAKISTAN
PL	POLAND
PM	SAINT PIERRE AND MIQUELON
PN	PITCAIRN
PS	PALESTINIAN TERRITORY, OCCUPIED
PT	PORTUGAL

COUNTRY CODE	COUNTRY NAME
PY	PARAGUAY
QA	QATAR
RE	RÉUNION
RO	ROMANIA
RU	RUSSIAN FEDERATION
RW	RWANDA
SA	SAUDI ARABIA
SB	SOLOMON ISLANDS
SC	SEYCHELLES
SD	SUDAN
SE	SWEDEN
SG	SINGAPORE
SH	SAINT HELENA
SI	SLOVENIA
SJ	SVALBARD AND JAN MAYEN
SK	SLOVAKIA
SL	SIERRA LEONE
SM	SAN MARINO
SN	SENEGAL
SO	SOMALIA
SR	SURINAME
ST	SAO TOME AND PRINCIPE
SV	EL SALVADOR
SY	SYRIAN ARAB REPUBLIC
SZ	SWAZILAND
TC	TURKS AND CAICOS ISLANDS
TD	CHAD

COUNTRY CODE	COUNTRY NAME
TF	FRENCH SOUTHERN TERRITORIES
TG	TOGO
TH	THAILAND
TJ	TAJIKISTAN
TK	TOKELAU
TL	TIMOR-LESTE
TM	TURKMENISTAN
TN	TUNISIA
TO	TONGA
TR	TURKEY
TT	TRINIDAD AND TOBAGO
TV	TUVALU
TW	TAIWAN, PROVINCE OF CHINA
TZ	TANZANIA, UNITED REPUBLIC OF
UA	UKRAINE
UG	UGANDA
UM	UNITED STATES MINOR OUTLYING ISLANDS
US	UNITED STATES
UY	URUGUAY
UZ	UZBEKISTAN
VA	HOLY SEE (VATICAN CITY STATE)
VC	SAINT VINCENT AND THE GRENADINES
VE	VENEZUELA
VG	VIRGIN ISLANDS, BRITISH
VN	VIET NAM
VU	VANUATU
WF	WALLIS AND FUTUNA

COUNTRY CODE	COUNTRY NAME
WS	SAMOA
YE	YEMEN
YT	MAYOTTE
ZA	SOUTH AFRICA
ZM	ZAMBIA
ZW	ZIMBABWE

4.3 Frequently Asked Questions (FAQ) — EFI File and Record Rejection

INDEX
1. What are the preliminary items checks to determine why my EFI file has rejected?
2. The majority of the records in my file rejected. What could be the cause?
3. How do I submit a group taxonomy for a Type 2 Organization Provider?
4. Will all the errors in my record appear in the first response file?
5. What is the NPPES System flow for validating an EFI File/Record?
6. My file status is "Processing Completed" does that mean all the records have enumerated successfully?
7. I submitted an ITIN in a new application EFI file request. Why did my record reject?
8. Do I need the latest software to zip my files for submission?
9. How much information will I receive if my entire file rejects?
10. A record rejected that has an ampersand in the provider name. What is the cause?

1. What are the preliminary checks to determine why my EFI file has rejected?

- a. First verify that the file is valid against the XML schema.
 - o Header Validation failed - The same valid 6 digit Electronic File Interchange Organization (EFIO) number must appear for each record in the file.
(CMS27420300_2100AA_NM109_SubmitterIdentifier="123456") This number must be associated with the Electronic File Interchange Organization Representative (EOR) in order to be valid.

- b. Second verify if the XML Schema Validations fail within the file. This is an error within any of the XML elements. The EOR must ensure that the XML element name is accurate. For example:

Invalid: – CMS27423**200**_2140CA; **ABC**27423400_2140CA

Valid: – CMS27423**400**_2140CA; **CMS**27423400_2140CA

It is also important that each XML element is in the proper order within the file. For example a record where the XML elements CMS27422100_2110CA, CMS27422600_2120CA, CMS27422600_2130CA are not in their proper place under the root element CMS27420300_2100CA, will ensure that the entire file will reject.

Note: The examples below use the XMLSpy (XML editor software by Altova) Grid View:

Figure 4-1 Sample Invalid EFI Element Ordering

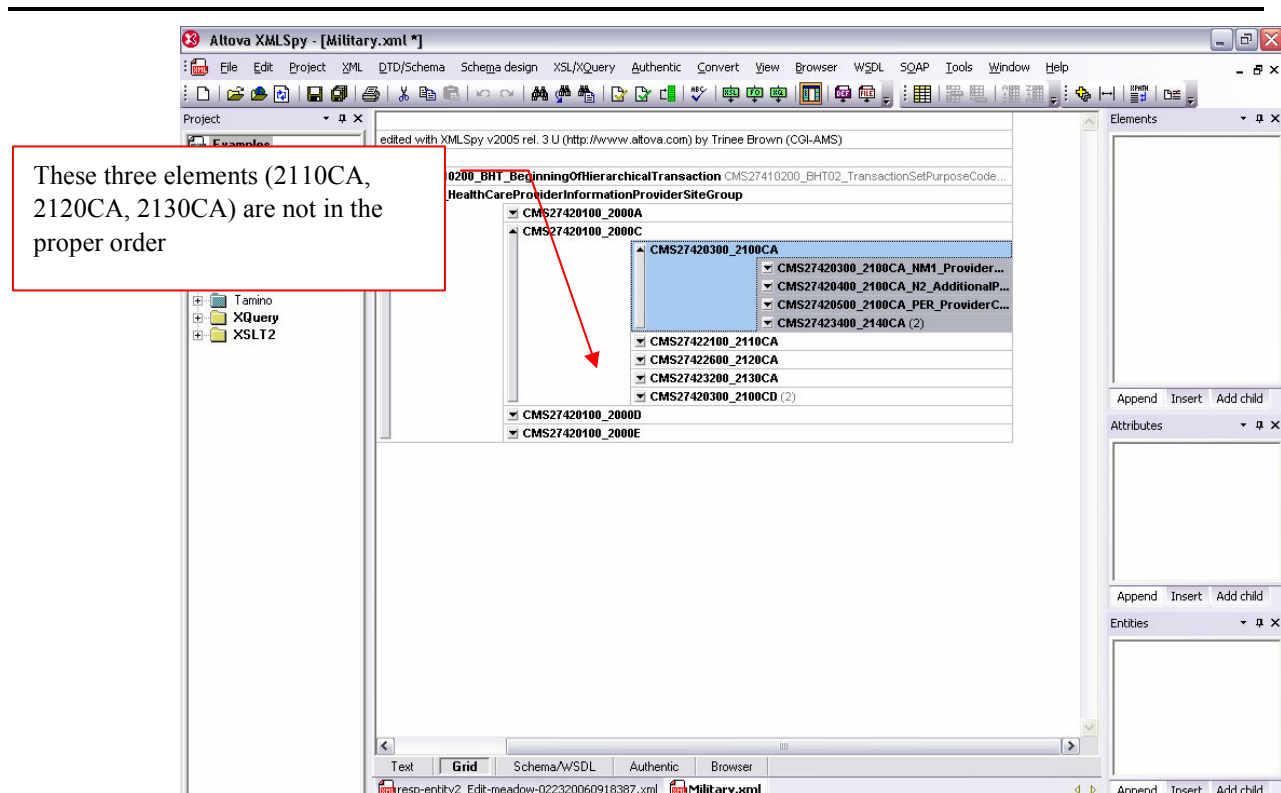
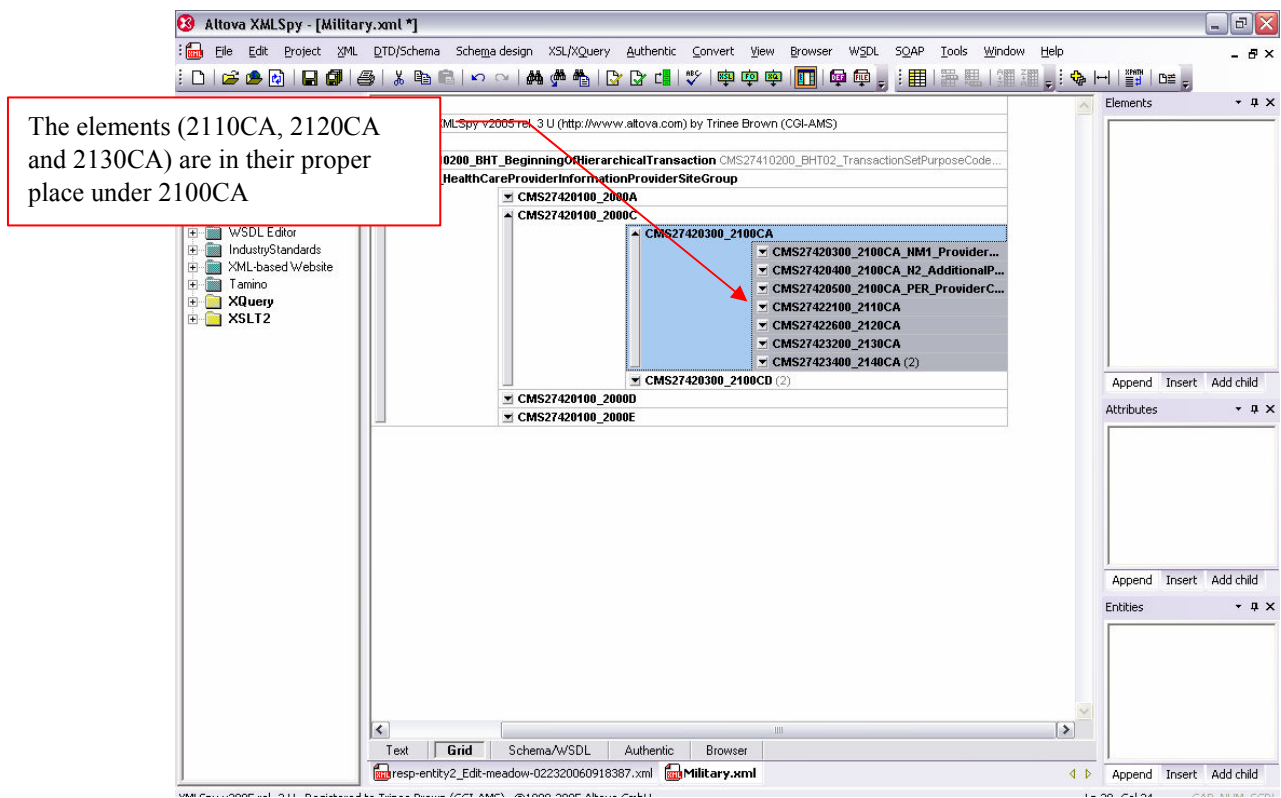
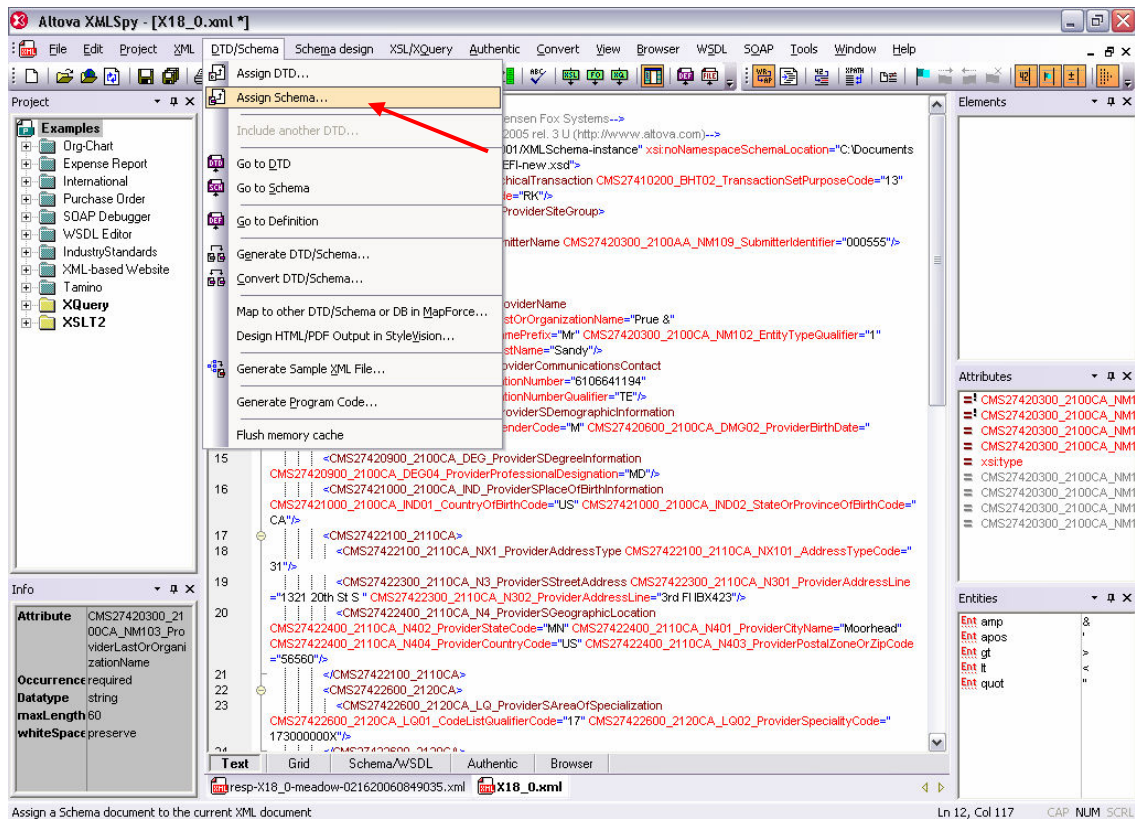


Figure 4-2 Sample Valid EFI Element Ordering

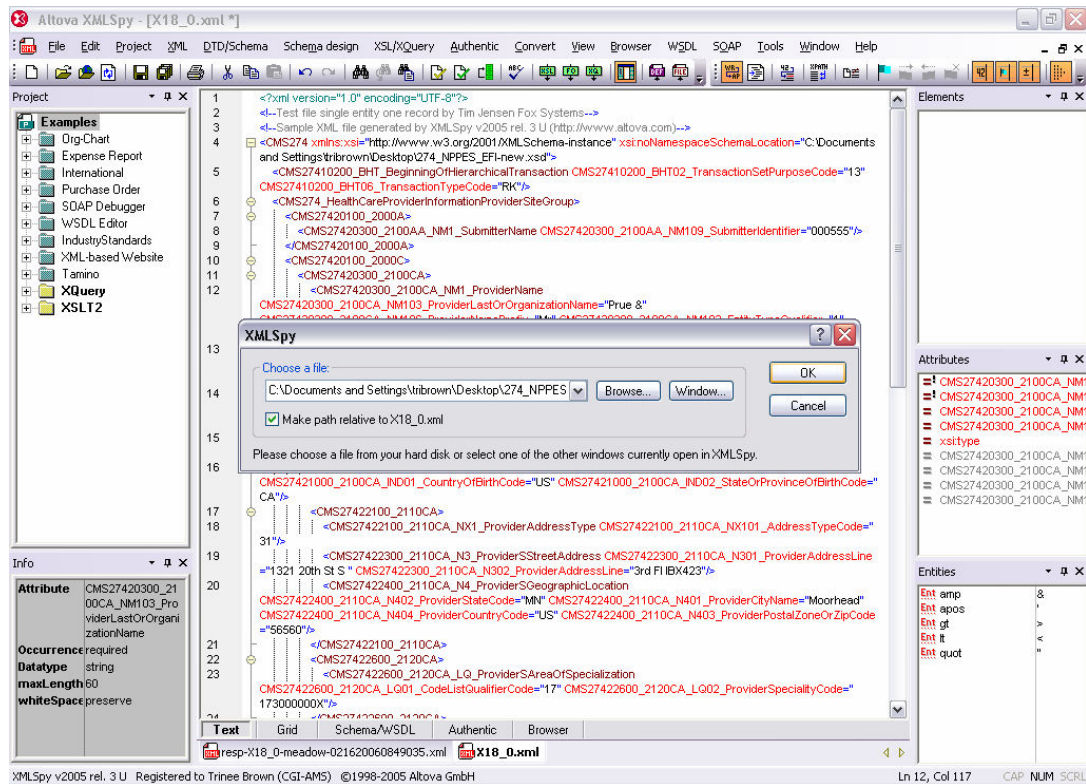


The following diagrams illustrate how to validate a XML file against the schema using XMLSpy:

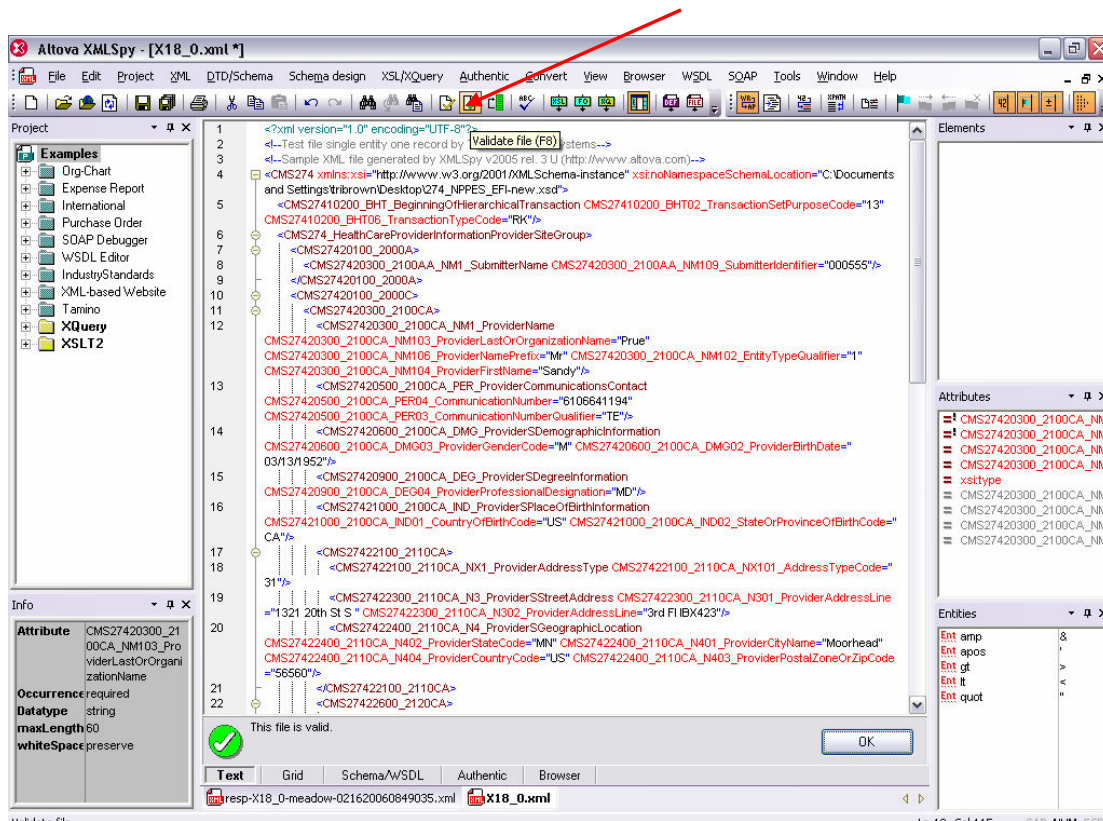
Figure 4-3 *EFI XML Validation against EFI Schema*



- Select the location of the XML schema then select the **OK** button.



- Once the schema location is selected, click the validate file button at the top of the menu bar.



Other possible causes for an entire EFI file to reject include:

- When the Transaction set purpose code is listed as something other than 13 (13 is for requests and 11 for response).
- When the Transaction Type code is listed as something other than RK (new request), and U5 (update/modify request).
- No xml file is provided within an uploaded zip file.
- When the original uploaded file size is ZERO.
- Parsing exceptions due to invalid/special characters in the xml data.

2. The majority of the records in my file rejected. What could be the cause?

The primary cause for records to reject is that they have various field errors. Some specific examples include:

- a. *Field edit errors* such as invalid format for DOB **x/x/xx** or invalid email format **nppes*yahoo!com** will cause a record to reject. Although the provided information did not fail the schema check, NPPES performs its' own separate edits of the information being submitted and will determine whether it is acceptable.

- Example:
 - A provider submits a file with a record that has the Country of Birth and Mailing Address Country listed as “USA”. While this is acceptable by the XML Schema; it will reject in NPPES. It should appear as “US” in the XML file.
- b. *Required fields missing* is an error that results in omitting any fields that the NPPES system requires to successfully enumerate or process a change request on a record. The EOR should thoroughly check each record in the original file to ensure that all required items are included.
 - Examples:
 - An EFI file does not include required information such as Entity Type, Organization Name, Provider First Name, etc.
 - A provider selects a code without the corresponding data:

For instance this user submitted the alias code (Provider Other Name in NPPES) without the actual name information.

```
<CMS27420300_2100CD_NM1_AffiliatedEntityName
CMS27420300_2100CD_NM101_EntityIdentifierCode="XD"
CMS27420300_2100CD_NM103_AffiliatedEntityLastOrOrganizationName="
"/>
```

This user provided the “Other” type code "G2" and the corresponding identification number without the required description information

```
<CMS27423400_2140CA_REF_ProviderIdentificationNumbers
CMS27423400_2140CA_REF01_ReferenceIdentificationQualifier="G2"
CMS27423400_2140CA_REF02_ProviderIdentifier="3319173"
CMS27423400_2140CA_REF03_Description="."/>
```

3. How do I submit a group Taxonomy for a Type 2 Organization Provider within an EFI record without having it reject?

An Organization record can have both Type 2 Organization and Type 1 Individual taxonomies.

Type 1 Individual taxonomies are valid entries for Organizations by utilizing XML element **<CMS27420100_2000E>** in the file. This element is used for Group Taxonomy entries. For example:

If a Type 2 provider record has a Group Type 1 taxonomy (Dental Providers 122400000X) they must enter it under both elements **<CMS27422600_2120CA>** and **<CMS27420100_2000E>**.

```
<CMS27422600_2120CA>
  <CMS27422600_2120CA_LQ_ProviderSAreaOfSpecialization
    CMS27422600_2120CA_LQ01_CodeListQualifierCode="12"
    CMS27422600_2120CA_LQ02_ProviderSpecialityCode="122400000X"/>
</CMS27422600_2120CA>
```

```

<CMS27420100_2000E>
  <CMS27420300_2100EA>
    <CMS27422600_2120EA>
      <CMS27422600_2120EA_LQ_ProviderGroupSAreaOfSpecialization
        CMS27422600_2120EA_LQ01_CodeListQualifierCode="12"
        CMS27422600_2120EA_LQ02_ProviderGroupSpecialtyCode="12240
          0000X"/>
      </CMS27422600_2120EA>
    </CMS27420300_2100EA>
  </CMS27420100_2000E>

```

4. Will all the errors in my record appear in the first response file?

If a file is not rejected then a response file will be generated by NPPES. If the response file contains records with multiple errors, the file will reflect all pre-processing errors for a particular record. For example, if a record has more than one field edit error (e.g., DOB is missing and an invalid format is used for the Practice Location Phone Number), the response file will reflect both field edit errors by the Condition Indicator Codes 02 (for the missing DOB) and 01 (for the invalid Practice Location Phone Number format).

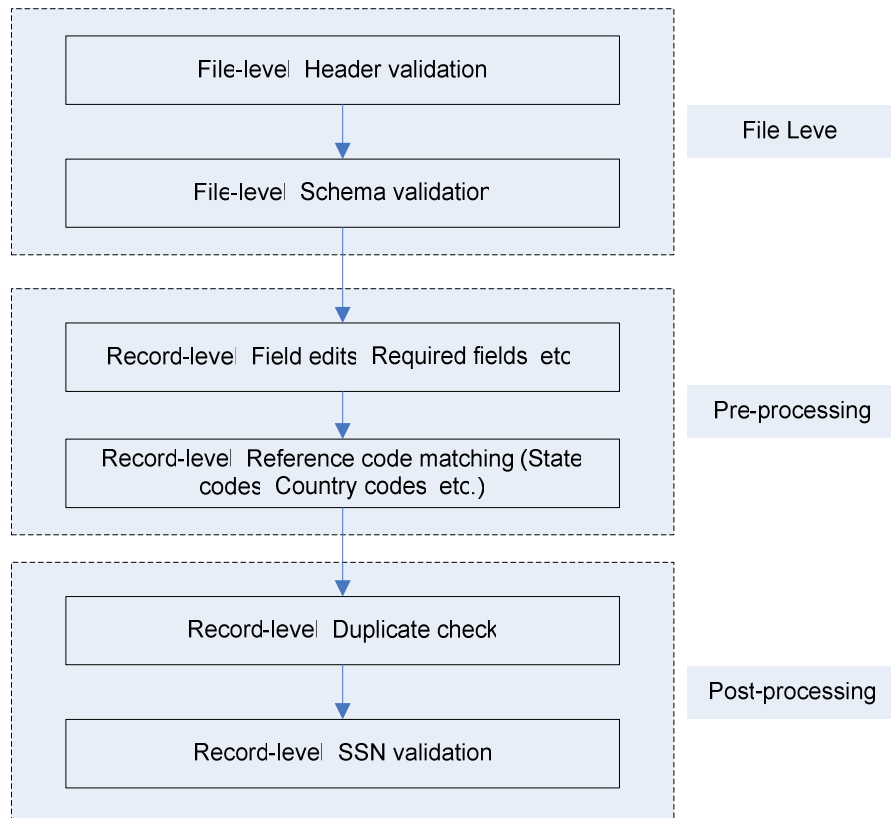
If a record has both field edit errors (e.g., DOB is missing) and post-processing errors (e.g., SSN Duplicate is found), the response file will only reflect the field edit error by the Condition Indication Code 01. If the field edit error is fixed and the file is resubmitted, the new response file will show the Condition Indicator Code 03 (for the SSN Duplicate error).

All pre-processing errors found in a record must be fixed before post-processing errors are included in the response file.

5. What is the NPPES System flow for validating an EFI File?

When an EFI file is uploaded to the NPPES system, there are various levels of validations that are performed both at the file level and the individual record level:

Figure 4-4 **EFI XML File Validation Levels**



6. My file status is "Processing Completed" does that mean all the records have enumerated successfully?

No. Even though a response file generates and the status of the file is "Processing Completed" it does not mean that there are not rejected records in the file. Processing Completed simply means that the system has processed the entire file and no other actions will be taken by the system.

7. I submitted an ITIN in a new application EFI file. Why did my record reject?

NPPES does not allow an Individual Taxpayer Identification Number (ITIN) to be submitted via the EFI process to enumerate a provider when an SSN is not also submitted. In the case where a provider was

previously enumerated with only an ITIN, any subsequent EFI change request for the provider must contain the ITIN (for matching purposes) and the provider's SSN.

8. Do I need the latest software to zip my files for submission?

Yes. Not having the latest version may cause issues with the file. NPPES EFI supports Zip files created by the latest versions of WinZip and PKZip, such as WinZip 9.0 and PKZip 8.0. Other Zip utilities that conform to the PKZip format may work, but the support of them is not guaranteed. Outdated versions of Zip utilities are likely to be incompatible with NPPES EFI.

9. How much information will I receive if my entire file rejects?

If a file is rejected by the system the EOR will know by the file status on the EFI Search Results Page and will also receive an email notification. This notice will provide the EOR with a high level explanation of what caused their file to reject. Below is an example of the email the EOR would receive when a file rejects because the XML input file does not conform to the NPPES EFI Schema:

```
To:          efirepresentative@somehost.com
Date:         [System Generated]
Subject:      National Provider Identifier

The National Provider Identifier System received the following EFI file
that you submitted to https://nppes.cms.hhs.gov:

    [Original File Name]

    [System Generated File Name]

This is to inform you that the EFI file has been rejected due to the
following rejection reason:

XML schema errors

Before resubmitting a file, please review your submission to ensure
that it is consistent with the XML schema and that the information
contained in each record is accurate and complete.

If you have any questions, you may:

1.) Refer to the NPI website (https://nppes.cms.hhs.gov), or
2.) Contact the NPI Enumerator at:

        NPI Enumerator
        PO Box 6059
        Fargo, ND 58108-6059
        1-800-465-3203 (NPI Toll-Free)
```

1-800-692-2326 (NPI TTY)

customerservice@npienumerator.com

10. A record rejected that has an ampersand in the provider name. What is the cause?

In XML it is known that specific special characters must be ‘escaped’ in order to be valid. The special characters (&, ‘, >, < and “) must be submitted in the XML file in the following way:

XML file	Meaning
&	& ampersand
'	` apostrophe
>	> greater than sign
<	< less than sign
"	“ quote

4.4 EFI Response File Record Operation Codes and User Corrective Actions

This section provides additional information for EFI organization representatives (EOR-s) who work with EFI Response files. The section focuses on the possible code values of attribute

CMS27421400_2100CA_CRC03_ConditionIndicator in the EFI XML Response file (see *Section 2.3.18* and *Table 2-1*) and what actions, if any, an EOR can perform to correct potential EFI record error conditions.

In addition, attribute **CMS27421400_2100CA_CRC05_ConditionDetail** provides valuable information when error is found with a record (see *Section 2.3.18*).

Code Definition	OPRTN_IND_CD	Condition Detail Reasons	Corrective Action
Accepted	OK	Record submission was successful	None
Unspecified Error	ER	<p>If threshold limit is not set: Unspecified Error.</p> <p>If threshold limit is set: Record is not processed by the system due to previous records causing the file to reject due to threshold being reached. This code is not seen by the EOR in response files.</p>	<p>If threshold is not set: Resubmit records in a new EFI file. Response file will generate</p> <p>If threshold limit is set: Resubmit records in a new EFI file. Entire file will fail</p>
Failed Field Edits	01	<p>Invalid Entity Type.</p> <p>Invalid provider prefix</p> <p>Invalid provider suffix</p> <p>Other Name Type Required when Other Name fields contain data.</p> <p>Other Name Type Required when Other Organization Name contains data.</p> <p>Other type of name not in the given list</p> <p>Invalid other provider prefix</p> <p>Invalid other provider suffix</p> <p>Invalid SSN format</p> <p>Invalid EIN format.</p> <p>Invalid provider date of birth</p> <p>Invalid provider date of birth (not of format mm/dd/yyyy)</p> <p>Invalid provider date of birth (provider age is less Than 18 years)</p> <p>Invalid provider date of birth (provider date of birth can not be a date 300 years before)</p> <p>Invalid provider country of birth</p> <p>Invalid provider state of birth</p> <p>Invalid provider gender</p> <p>Invalid authorized official prefix</p> <p>Invalid authorized official suffix</p> <p>Authorized Official Phone Number must be at least 10 characters</p> <p>Mailing address state is not matched with the existing npes database state list</p>	Correct the record and resubmit it in a new EFI file.

Code Definition	OPRTN_IND_CD	Condition Detail Reasons	Corrective Action
		<p>Mailing address foreign zip code length is more than 20 characters</p> <p>Mailing address zip code is not a Number</p> <p>Mailing address country code is not matched with the existing npes database country list</p> <p>Domestic Mailing address zip code is not a digit of length 5 or 9</p> <p>Mailing address phone number is not a number</p> <p>Mailing address phone number is not a digit or length greater than 20</p> <p>Mailing address phone number is not a 10 digit Number</p> <p>Mailing address fax number length greater than 20 characters</p> <p>Mailing address fax number is not a 10 digit number</p> <p>Practice location address can not contain PO BOX like information</p> <p>Practice location address state is not matched with the existing npes database state list</p> <p>Practice location address zip code is not a number</p> <p>Practice location address foreign zip code length is more than 20 characters</p> <p>Domestic Practice Location address zip code is not a digit of length 5 or 9</p> <p>Practice location address country code is not matched with the existing npes database country list</p> <p>Practice location address phone number is not a number</p> <p>Practice location address phone number length greater than 20 characters</p> <p>Practice location address phone number is not a 10 digit Number</p> <p>Practice location address fax number length greater than 20</p> <p>Practice location address fax number is not a 10 digit number</p> <p>Invalid other identification number state code</p> <p>Invalid taxonomy number</p> <p>Invalid taxonomy License/State code</p> <p>Number of taxonomy specialty codes does not match with number of codes or states or license number</p> <p>Number of taxonomy specialty codes does not match with number of group specialty code provided</p> <p>You cannot have two groups in same Record</p> <p>Invalid contact person prefix</p>	

Code Definition	OPRTN_IND_CD	Condition Detail Reasons	Corrective Action
		Invalid contact person suffix Contact Person Phone Number must be at least 10 characters Invalid contact person e-mail address NPI number provided in new request Invalid NPI number (NPI number is not a number of 10 digits) Status reason reference code is not provided Invalid status reason reference code (NOT from the existing list) Status reason reference text NOT provided for other status reason reference code Length of SSN is more than corresponding database field Length of ITIN is more than corresponding database field Length of provider date of birth is more than corresponding database field Length of provider last name is more than corresponding database field Length of organization name is more than corresponding database field Length of EIN is more than corresponding database field Length of NPI number is more than corresponding database field Field length is more than corresponding database field length in the NPPES system EFI change request may not be submitted for a Sole Proprietor application. Taxonomy number can not be either empty or null	
Required Fields Missing (Based on NPPES requirements)	02	Provider first name is not provided Provider last Name is not provided Organization provider name is not provided SSN can not be blank. EIN is not provided Provider state of birth is not provided Provider date of birth is not provided Provider country of birth is not provided Provider gender is not provided Provider Other Name Incomplete. Provider Other Name must contain First and Last Name. Other Organization Name is incomplete. If an Other Name Type is selected,	Correct the record and resubmit it in a new EFI file

Code Definition	OPRTN_IND_CD	Condition Detail Reasons	Corrective Action
		<p>Other Organization Name must be entered.</p> <p>Authorized official first name is not provided</p> <p>Authorized official last name is not provided</p> <p>Authorized official title is not provided</p> <p>Authorized official phone number is not provided</p> <p>Mailing address line 1 is not provided</p> <p>Mailing address city name is not provided</p> <p>Mailing address state is not provided</p> <p>Mailing address zip code is not provided</p> <p>Mailing address country code is not provided</p> <p>Practice location address line 1 is not provided</p> <p>Practice location address city name is not provided</p> <p>Practice location address state is not provided</p> <p>Practice location address zip code is not provided</p> <p>Practice location address country code is not provided</p> <p>Practice location address phone number is blank</p> <p>Other identification number id type is not provided</p> <p>Other identification number is not provided</p> <p>Other identification number Medicaid issuing state is not provided</p> <p>Invalid other identification number id type</p> <p>Other identification number description is blank when Type = OTHER</p> <p>At least one taxonomy data should be provided</p> <p>Missing Area of Specialization for either an Entity Type 1 or 2 record.</p> <p>Taxonomy requires a state and license number</p> <p>Either contact person first Name or last Name or phone number is not provided</p> <p>NPI number is not provided in change request</p> <p>An EFI File with change requests does not include the SSN in the record for an existing provider in the NPI System.</p>	
Exact Duplicate	03	<p>SSN Dups found within the uploaded XML file</p> <p>SSN Dups found within the NPPES system</p>	Correct the record and resubmit it in a new EFI file.

Code Definition	OPRTN_IND_CD	Condition Detail Reasons	Corrective Action
		Example: exact SSN match with an existing record	
Rejected by NPI Enumerator	04	Rejected by NPI Enumerator Example: failed because an enumerator staff user determined that this record already exists	Contact the NPI Enumerator and/or the provider for further information.
Invalid Taxonomy Code	05	Invalid taxonomy number provided (taxonomy code match not found in existing npes database list Example: taxonomy code entered does not exist in the system	Correct the record and resubmit it in a new EFI file.
Taxonomy Code Mismatch	06	Taxonomy code mismatch Example: a non-provider taxonomy is supplied, or an organization taxonomy is applied to an individual provider	Correct the record and resubmit it in a new EFI file.
SSN Validation Error	07	SSN Validation Failed (example: failed SSA validation)	Correct the record and resubmit it in a new EFI file.
Mailing Address Error	08	Mailing Address not standardized (example: address codes not found/invalid)	Contact Enumerator to resolve pending record or reject the application and resubmit in a new EFI file.
Location Address Error	09	Practice Location not standardized (example: address codes not found/invalid)	Contact Enumerator to resolve pending record or reject the application and resubmit in a new EFI file.
1)NPI not on File. 2)Key field values in the EFI File is not found in the database. 3)The corresponding NPI record in the NPI system is neither in active or change request status.	10	Provider last name not matched in change request Organization EIN can't be modified through EFI change request Organization name can't be modified through EFI change request SSN or ITIN not matched in change request Provider Date of Birth not matched in change request Given NPI number does not exist in NPES system for this type of provider An action on the NPI record requires the record to be active or in change request status. Example: change request transaction and NPI was not found on the database	Correct the record and resubmit it in a new EFI file.
Pended by GateKeeper	12	GateKeeper routines have flagged the record for Enumerator review	Enumerator intervention

Code Definition	OPRTN_IND_CD	Condition Detail Reasons	Corrective Action
			required
Pended by L/S/T	13	L/S/T edits have flagged the record for Enumerator review	Enumerator intervention required
Duplicate record	14	Duplicate Record Found (example: exact duplicate of another record in the file)	Correct the file and resubmit it in a new EFI file.